

Bell 429 Product Specifications

July 2009



Bell Helicopter

A Textron Company

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Publishers Notice

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

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

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

The specifications, weights, dimensions, and performance data shown in this document are subject to change without notice.

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Technical drawing of the Sikorsky UH-60 Black Hawk helicopter, showing front, side, and top views with dimensions.

Front View Dimensions:

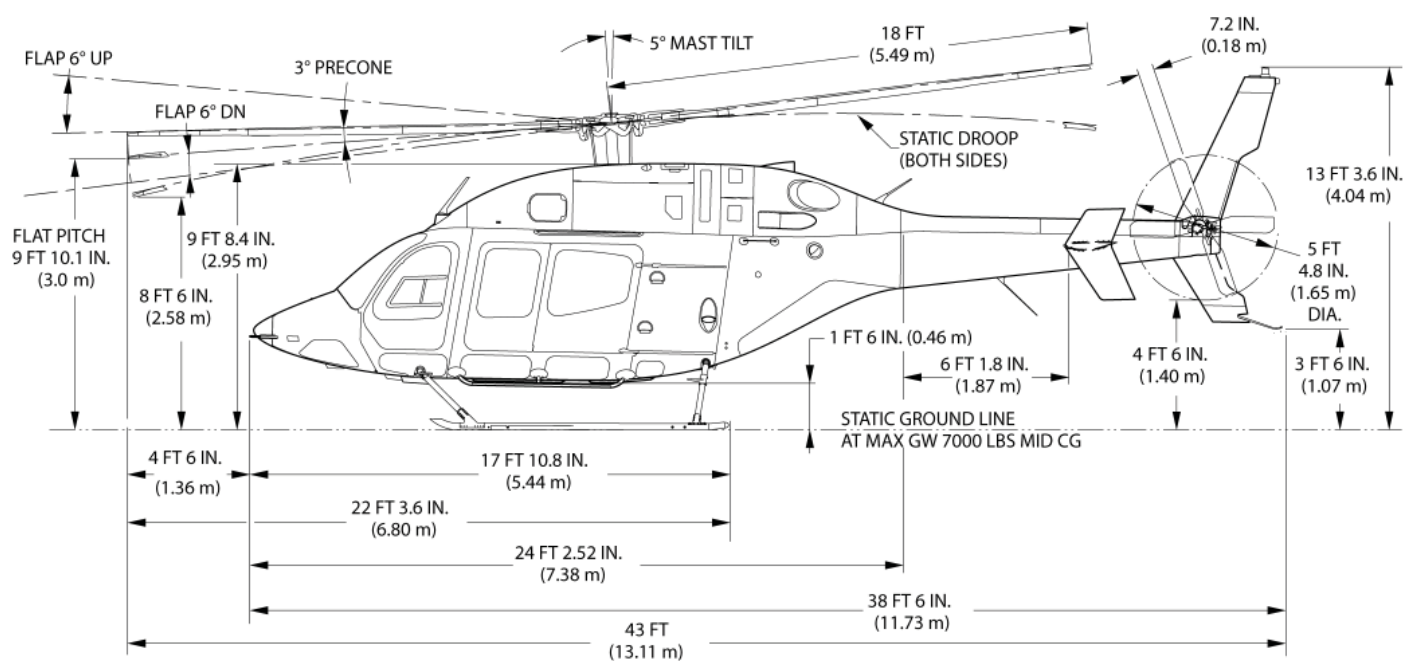
- Main body width: 8 FT 9.6 IN. (2.67 m)

Side View Dimensions:

- Main body height: 13 FT 2.2 IN. (4.02 m)
- Height to main rotor hub: 8 FT 9.24 IN. (2.72 m)
- Height to tail rotor hub: 9 FT 9.96 IN. (3.00 m)
- Tail rotor tilt angle: 6.1°

Top View Dimensions:

- Main body width: 5 FT 3.96 IN. (1.63 m)
- Height to main rotor hub: 1 FT 2.4 IN. (0.37 m)
- Overall length: 37 FT 7.6 IN. (11.47 m)



July 2009

Specification Summary (U.S. Units)

Weights	lbs
Standard Configuration Gross Weight (Note 1)	4425
Normal Gross Weight	7000
External Gross Weight	7500
Standard Configuration Useful Load (Normal GW – Standard Config. GW)	2575
Maximum External Load (Cargo Hook Limit)	3000

Performance Summary:						
Takeoff, Gross Weight		lbs	5500	6000	6500	7000
IGE Hovering Ceiling	ISA	ft	20,000+	18,577	16,301	14,132
	ISA+20	ft	17,969	15,487	13,102	10,839
OGE Hovering Ceiling	ISA	ft	18,390	15,888	13,535	11,282
	ISA+20	ft	15,347	12,744	10,287	7963
Service Ceiling (MCP) - AEO	ISA	ft	20,000+	20,000+	20,000+	18,714
	(30 minute) - OEI	ft	16,690	14,209	11,871	9629
	(continuous) - OEI	ft	15,670	13,153	10,728	8443
Maximum Cruise Speed (true airspeed)	SL, ISA	ktas	154	153	152	150
	SL, ISA+20C	ktas	154	153	151	149
	4000 ft, ISA	ktas	155+	155+	155+	155
	4000 ft, ISA+20C	ktas	153	151	149	145
Cruise at Long Range Cruise (LRC) Speed Range (standard fuel, no reserve)	SL, ISA	nmi	246	376	378	368
LRC Speed (average true airspeed)		ktas	128	128	129	130
Range (standard fuel, no reserve)	4000 ft, ISA	nmi	271	413	414	407
LRC Speed (average true airspeed)		ktas	128	129	130	129
Endurance at Loiter Speed (60 kts)	SL, ISA	hr	2.8	4.2	4.2	4.0
	4000 ft, ISA	hr	3.0	4.6	4.5	4.4

Engine Ratings: (100% RPM)		Uninstalled Thermodynamic Power	Engine Rated Power
Pratt & Whitney Canada PW207D1 with Full Authority Digital Electronic Control (FADEC)			
Takeoff (5 minutes)	SHP	719	598
Max Continuous Power	SHP	635	586
OEI (30 seconds)	SHP	826	729
OEI (2 minutes)	SHP	784	701
OEI (30 minutes)	SHP	753	663
OEI (continuous)	SHP	719	655

Transmission Ratings: (100% RPM)		
Takeoff (5-minute)	SHP	1100
Max Continuous	SHP	1100
OEI (30 seconds)	SHP	729
OEI (2 minutes)	SHP	650
OEI (30 seconds & continuous)	SHP	550
Fuel Capacity (usable):		
Standard		216.9 US Gallons
Auxiliary (optional)		39.2 US Gallons

* Refer to demonstrated takeoff and landing and maximum operating altitude notes on the performance charts

Note 1: Standard configuration includes all items listed in the Standard Configuration section of this document as well as 24 pounds of engine oil. Ballast is not included in the standard configuration (ballast is a function of installed equipment).

The data set forth on this document are general in nature and may vary with conditions.

For performance data and operating limitations for any specific flight mission, reference must be made to the approved Flight Manual

Specification Summary (Metric Units)

Weights	KG
Standard Configuration Gross Weight (Note 1)	2007
Normal Gross Weight	3175
External Gross Weight	3402
Standard Configuration Useful Load (Normal GW – Standard Config. GW)	1168
Maximum External Load (Cargo Hook Limit)	1361

Performance Summary:

Takeoff, Gross Weight		KG	2495	2722	2948	3175
IGE Hovering Ceiling	ISA	m	6096+	5662	4969	4307
	ISA+20	m	5477	4720	3993	3304
OGE Hovering Ceiling	ISA	m	5605	4843	4125	3439
	ISA+20	m	4678	3884	3135	2427
Service Ceiling (MCP) - AEO	ISA	m	6096+	6096+	6096+	5704
(30 minute) - OEI	ISA	m	5087	4331	3618	2935
(continuous) - OEI	ISA	m	4776	4009	3270	2573
Maximum Cruise Speed (true airspeed)	SL, ISA	km/hr	285	283	281	278
	SL, ISA+20C	km/hr	285	283	280	276
	1220 m, ISA	km/hr	287+	287+	287+	287
	1220 m, ISA+20C	km/hr	283	280	276	269
Cruise at Long Range Cruise (LRC) Speed Range (standard fuel, no reserve)	SL, ISA	km	456	696	700	682
LRC Speed (average true airspeed)		km/hr	237	237	239	241
Range (standard fuel, no reserve)	1220 m, ISA	km	502	765	767	754
LRC Speed (average true airspeed)		km/hr	237	239	241	239
Endurance at Loiter Speed (111 km/hr)	SL, ISA	hr	2.8	4.2	4.2	4.0
(standard fuel, no reserve)	1220 m, ISA	hr	3.0	4.6	4.5	4.4

Engine Ratings: (100% RPM)		Uninstalled Thermodynamic Power	Engine Rated Power
Pratt & Whitney Canada PW207D1 with Full Authority Digital Electronic Control (FADEC) Takeoff (5 minutes)	kW	536	446
Max Continuous Power	kW	473	437
OEI (30 seconds)	kW	616	544
OEI (2 minutes)	kW	585	523
OEI (30 minutes)	kW	561	494
OEI (continuous)	kW	536	488

Transmission Ratings: (100% RPM)		
Takeoff (5-minute)	kW	820
Max Continuous	kW	820
OEI (30 seconds)	kW	544
OEI (2 minutes)	kW	485
OEI (30 seconds & continuous)	kW	410
Fuel Capacity (usable):		
Standard		821.1 Liters
Auxiliary (optional)		148.4 Liters

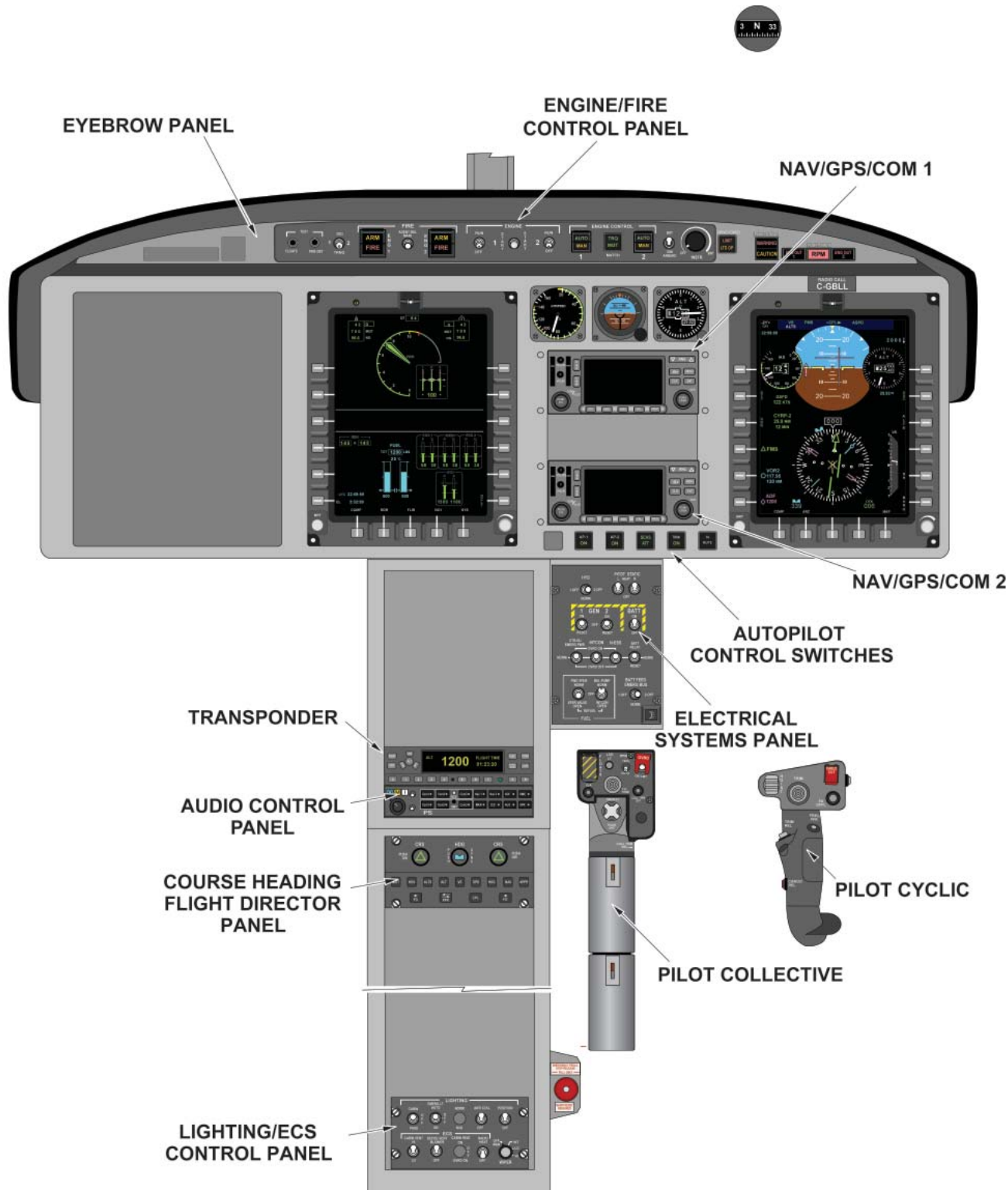
* Refer to demonstrated takeoff and landing and maximum operating altitude notes on the performance charts

Note 1: Standard configuration includes all items listed in the Standard Configuration section of this document as well as 11 kilograms of engine oil. Ballast is not included in the standard configuration (ballast is a function of installed equipment).

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Bell BasiX-Pro® Integrated Avionics System



Specifications subject to change without notice.

Automatic Flight Control System



AFCS and Trim Push Button Annunciators



Course Heading Flight Director Panel

Specifications subject to change without notice.

429 Seating

CREW SEATING – Two individual ergonomically designed energy attenuating seats with adjustable lumbar support, each equipped with seat adjustment controls, adjustable lumbar support, a four-point restraint system, and adjustable pedals. The color and upholstery material for the seats match the color scheme selected for the cabin.

PASSENGER CABIN SEATING OPTIONS – Five passenger seating options are available for selection (ref. Optional Accessory Kits, page. 10), two standard seating options and three corporate seating options.

Standard Six Place Seating: Standard seating consists of two rows of three energy-absorbing seats, with individual 4-point restraint system, quick release disconnects and fixed provisions for a passenger cabin ICS system. Each passenger seat assembly is installed on two transverse tracks that are attached to the cabin floor. The quick release disconnects enable the seats to be quickly arranged into either an airline configuration with both rows facing forward, or a club configuration with the two rows facing each other. The seats are upholstered in fabric. Vinyl seat upholstery and reinforced vinyl “Aermat” floor covering are available at extra cost.

The passenger seats are available in either a standard 15.5” seat width or a standard wide 18.5” seat width.

The standard interior trim consists of full thermoplastic closeouts on all airframe areas and a molded thermoplastic headliner with two fixed slotted air vents. A headliner with LED lights and adjustable air conditioning vents is available as an optional accessory.



Standard Six Place Passenger Seating – Airline Arrangement

Note: Passenger seats, carpeting and aft cabin bulkhead closeout panel are optional accessory kits, not included in Standard Configuration weight and price.

Specifications subject to change without notice.

429 Seating

Corporate Seating Options:

Three corporate seating options are available:

- Six place seating with 18.5" wide plush seats
- Five place club seating with a row of two 21.5" seats separated by a center console facing a row of three 18.5" seats
- Four place club seating with two 21.5" seats separated by a center console on each side

All corporate seating options include individual 3-point restraint system, quick release disconnects and fixed provisions for a passenger cabin ICS system. For the five place club seating option, the quick release disconnects enable the seats to be quickly arranged with the two 21.5" seats facing either forward or aft. The seats are upholstered in premium leather, and the floor is covered with plush wool carpet.

The corporate interior trim consists of full thermoplastic panels on all airframe areas with color coordinated leather or fabric trim, and a molded thermoplastic headliner with LED lights, adjustable air conditioning vents and color coordinated leather trim.



Corporate Five Place Club Passenger Seating Arrangement

Note: Passenger seats, carpeting and aft cabin bulkhead closeout panel are optional accessory kits, not included in Standard Configuration weight and price.

Specifications subject to change without notice.

Standard Configuration

(Items Included in List Price)

Certified for Single Pilot IFR and Category A Operations at MGW
Certification Basis: FAR Part 27 Amendment 44, 2008
(Most current Certification Standard)

AIRFRAME	
Fuselage: Machined alloy airframe with single piece machined roof beams, lift frames, cabin keel beams and nose beams; carbon fiber composite side-bodies, belly panels, nose skins, floor panels, decks and engine cowls	Two elastomeric forward/aft restraints
Corrosion resistant design with wet installed fasteners and sealed surfaces where dissimilar materials are found to provide exceptional resistance to adverse environmental conditions	Three main transmission chip detectors
Doors (six, carbon fiber): Hinged pilot & co-pilot doors with sliding windows; hinged forward and sliding aft passenger doors on both sides.	Two transmission-mounted hydraulic pumps
Passenger doors provide 59 inches unobstructed opening on each side.	Tail rotor drive shaft:
Door Locks for cabin doors and luggage compartment	Two steel forward drive shafts in engine deck/fire zone
Luggage compartment: Aft cabin (74 cubic feet), with 16 discrete tie-down hardpoints and R/H side external luggage door	Two interchangeable carbon fiber composite aft drive shafts in tailboom zone
Landing gear: Tubular skid type with replaceable wear shoes	Single stage 90° tail rotor gearbox
Tailboom: Carbon fiber tailboom, vertical fin and horizontal stabilizer	One tail rotor gearbox chip detector
Fuselage mounted passenger cabin steps, forward mounted crew steps, and aft maintenance step	
Provisions for mooring, jacking and single point lifting	ROTORS AND CONTROLS
Windows: Gray tinted acrylic windows and windshields	Main rotor: Soft-in-plane system, 36 ft. diameter, four interchangeable M/R blades, with stacked composite yokes, titanium drive plate and CF fittings, elastomeric CF bearings and shear restraints, and elastomeric lead/lag dampers
Wire Strike Protection System Fixed Provisions	Composite M/R blades with Nickel-Cobalt leading edge abrasion strips and tip caps, HIGH VISABILITY (orange/white top - white bottom) paint scheme
Air Conditioning Fixed Provisions	Tail rotor: Four blade stacked system, 65” diameter, with low tip speed, scissor arrangement, composite T/R blades with swept blade tips, Nickel-Cobalt leading edge abrasion strips, and elastomeric flapping bearings
Bleed Air Heater Fixed Provisions	Dual Hydraulic System with integrated hydraulic modules
Three color exterior paint schemes, Sample illustrations available upon request	Mechanical flight controls throughout
	Collective mounted throttle controls
	Dual Pilot Control Provisions
	Rotor Brake
	FLIGHT & ENGINE INSTRUMENTS – Bell BasiX-Pro
	Integrated Avionics System
	EFIS/EICAS (Electronic Flight Instruments System/ Engine Indicating & Crew Alerting System)
	Two 6” x 8” colour LCD displays with video display capability
	“Smart” programmable display unit provisions for future interface required for customized equipment installations
	Aircraft Data Interface Unit, Dual Channel
	AFCS (3-axis), Dual digital autopilot
	Dual channel SCAS and trim actuators
	AD/AHRS (Air Data/Attitude Heading Reference System), Dual Channel (Honeywell KSG7200)
	Course/Heading/Flight Director Panel
	Standby Instruments: Attitude, Altitude, Heading and Airspeed
	Electronic Data Recorder embedded in the IAS (Integrated Avionic System) (non-crashworthy)
POWERPLANT	
Two Pratt & Whitney Canada 207D1 Engines, 1,172 shp, (Mechanical) Maximum Continuous Rating (586 shp per engine)	
Electronic Engine Controls (EEC)	
Fuel Management Module (FMM)	
Fuel system: 216.9 gal. (820 liter) usable capacity, with three rupture resistant fuel cells located under the cabin floor panel and suction-type fuel feed system	
Inlet Barrier Filter & Electrical Provisions	
Engine Fire Detector & Dual Bottle Fire Extinguisher System	
TRANSMISSION AND DRIVE SYSTEMS	
Two-stage dual input drive main transmission, 1,100 shp Maximum Continuous Power	
Two fluid filled pylon mounts LIVE suspension (left and right vertical axis mounts)	

Specifications subject to change without notice.

Standard Configuration (cont)

(Items Included in List Price)

Certified for Single Pilot IFR and Category A Operations at MGW
Certification Basis: FAR Part 27 Amendment 44, 2008
(Most current Certification Standard)

COMMUNICATIONS & NAVIGATION	ELECTRICAL
Nav/Comm/GPS: VOR/ILS/GS/COMM/GPS and WAAS (Wide Area Augmentation System), with two 1.8" h x 3.3" w displays (Garmin GNS 430)	28 volt DC system, dual generator configuration
Transponder: ELS compliant Mode S (Garmin GTX 330)	53 AmpH Increased Capacity Battery, Sealed Lead-Acid (required for Cat. A Operations)
Dual Keyed and/or VOX Intercom System	Two 200 Amp Starter Generators, with two generator-regulator control units (required for Cat. A. Operations)
Marker Beacon Receiver	External power source connection
Radar Altimeter (Honeywell KRA 405B) (Required for Cat. A Operations)	LED Cockpit instrument, annunciator, utility and map lighting with programmable lighting power supply to ensure light balancing across all cockpit display and control panels
ELT (ARTEX C406-N-HM)	All LED basic external lighting system: landing light, anti-collision light and position lights
INTERIOR	Digital maintenance interface available from cockpit for all digital aircraft systems
Open cabin design with flat floor, total contiguous cabin volume 220 cu. ft. (passenger and aft cabin area volume 204 cu. ft.)	RADS wiring for sensors embedded in basic aircraft wiring
Standard cockpit seating (2 seats), adjustable forward & aft, up & down, with lumbar support and adjustable pedals	Baggage compartment lighting
Ram air cockpit and cabin ventilation system	Electrical Provisions Kit (Required for Cat. A Operations): Fixed provisions for Rotor Brake, ELT, Radar Altimeter, Articulated Landing Light and Windshield Wipers
Standard Interior (Thermoplastic panels covering all doors)	High Intensity Discharge Articulated Landing Light (Required for Cat. A Operations)
Standard Headliner, Passenger Cabin, with two fixed slotted side air vents	MISCELLANEOUS
Note: Passenger Cabin interior, headliner and seating options available for the 429 are listed in the Optional Accessory Kits section.	Keys for crew, passenger and baggage compartment doors
	Manuals – Flight, Maintenance and Illustrated Parts Breakdown/Special Tools Catalogue
	Main and tail rotor tie downs
	Cargo tie downs (loose equipment)
	Covers – engine air, oil cooler, exhaust and pitot
	Ground handling wheels, hydraulic

Specifications subject to change without notice.

Optional Accessory Kits

Refer to notes for kit compatibility.

Additional Kits and STC Items may be available for factory installation.

Please consult sales or contract personnel regarding special needs prior to selection of final configuration

Kit Description	Part Number	Availability Status	Wt (lbs)	Wt (kg)	Notes
Optional Accessory Kits:					
AIRFRAME					
Dual Pilot Controls Equipment (does not include co-pilot head set) (Required for Dual Pilot IFR)	429-706-701-101	✓	6.6	3.0	1
Pilot Cyclic Stick Locking Device	429-706-704-101	✓	0.2	0.1	
Aux. Fuel Tank Equipment (40 US Gal.)	429-706-500-101	✓	60.2	27.3	
Windshield Wiper (Pilot)	429-706-030-101	3rd Quarter 2009	9.4	4.3	
Windshield Wiper (Co-pilot)	429-706-030-103	3rd Quarter 2009	6.6	3.0	
Rear Clamshell Doors with windows	429-706-002-101 Effectivity: s/n 57001 - 57016	✓	28.0	12.7	
Rear Clamshell Doors with windows	429-706-002-103 Effectivity: s/n 57017 & subsequent	✓	28.0	12.7	
Emergency Floats without life rafts (Aerazur) (life vests not included)	221035-0	1st Quarter 2010	145.5	66.0	
Emergency Floats with one life raft, Left side (Aerazur) (life vests not included)	221036-0	1st Quarter 2010	197.3	89.5	
Emergency Floats with two life rafts, Left & Right side (Aerazur) (life vests not included)	221030-0	1st Quarter 2010	249.0	112.9	
Ditching Kit (additional strengthening to a/c nose and belly)	429-706-048-101	1st Quarter 2010	10.0	4.5	
Emergency Egress (jettisonable crew doors and push-out passenger windows)	429-706-048-109	1st Quarter 2010	TBD	TBD	
Tail-Rotor Guard	429-706-066-101	4th Quarter 2009	12.0	5.4	
AUDIO					
Aft Cabin ICS - 6 Place (Headsets not included)	429-706-045-101	✓	2.5	1.1	
AVIONICS					
3rd Display Unit & Standby Compass (Required for Dual Pilot IFR)	429-706-026-101	✓	23.6	10.7	1
ADF (Honeywell KR 87)	429-706-043-101	4th Quarter 2009	7.9	3.6	
GNS-530 NAV/COMM/GPS (replaces Standard Equipment #1 GNS-430)	429-706-021-101	✓	2.2	1.0	
TCAS (Ryan 9900BX)	429-706-017-101	1st Quarter 2010	9.3	4.2	
4th Axis Autopilot	429-706-703-103	1st Quarter 2010	4.5	2.0	
Weather Radar (Primus 660)	429-706-018-101	1st Quarter 2010	24.4	11.1	
ENGINE					
Engine Fuel Heater (PW207D2 Engine) (P&W)	Available as customized installation	✓	4.3	2.0	
Compressor Wash Kit	429-706-047-101	✓	1.4	0.6	

Specifications subject to change without notice.

Optional Accessory Kits (con't)

Kit Description	Part Number	Availability Status	Wt (lbs)	Wt (kg)	Notes
ENVIRONMENT					
Single Evaporator Air Conditioning with manual controls	429EC-202-1	3rd Quarter 2009	87.0	39.5	2, 3
Dual Evaporator Air Conditioning with manual controls	429EC-200-1	3rd Quarter 2009	113.3	51.4	2, 3
Single Evaporator Air Conditioning with Auto. Climate Control System and Bleed Air Heater	TBD	1st Quarter 2010	TBD	TBD	2, 3
Dual Evaporator Air Conditioning with Auto. Climate Control System and Bleed Air Heater	TBD	1st Quarter 2010	TBD	TBD	2, 3
Bleed Air Heater Equipment – Standard, for use on a/c with Aft Cabin Bulkhead installed	429H-238-1	4th Quarter 2009	21.1	9.6	4, 6
Bleed Air Heater Equipment – EMS, for use on a/c without Aft Cabin Bulkhead	429H-238-2	3rd Quarter 2009	22.1	10.0	4, 7
EQUIPMENT					
Cargo Hook Provisions	429-706-009-103	1st Quarter 2010	11.3	5.1	
Cargo Hook Equipment, 3,000 lb. capacity	429-706-009-101	1st Quarter 2010	29.0	13.2	
High Gross Weight Towing kit	429-604-001	4th Quarter 2009	N/A	N/A	
Main Rotor Blade Folding Kit (1-fwd, 3 - aft)	429BF-900-1	1st Quarter 2010	1.0	0.5	
Rescue Hoist Provisions	429-705-056-103	1st Quarter 2010	30.0	13.6	
Rescue Hoist Equipment, 600 lb. capacity (Certified to Human External Cargo Standards)	429-706-056-101	1st Quarter 2010	182.0	82.6	
FLIGHT & ENGINE INSTRUMENTS					
Cockpit Voice Recorder/Flight Data Recorder, crashworthy	429-706-058-101	1st Quarter 2010	14.1	6.4	
Health & Usage Monitoring System	429-260-001	2nd Quarter 2010	18.0	8.2	
NVG Cockpit Lighting (US ITAR Controlled)	429-706-022-101	2nd Quarter 2010	2.0	0.9	
NVG 3rd Display & Standby Compass (US ITAR Controlled)	429-706-022-103	2nd Quarter 2010	TBD	TBD	
INTERIOR					
Corporate Interior	429-706-201-103	✓	3.7	1.7	
Headliner with LED lights & adjustable Air Conditioning vents	429-706-202-103	✓	21.5	9.8	2
Corporate Headliner with adjustable Air Conditioning vents and colour coordinated leather trim	429-706-202-105	✓	22.3	10.1	2
Carpets (for use with Dual Pilot Controls)	429-706-033-101	4th Quarter 2009	20 to 28	9.1 to 12.7	
Carpets (for use with Single Pilot Controls)	429-706-033-103	4th Quarter 2009	20 to 28	9.1 to 12.7	
Soundproofing - Standard (light weight)	429-706-034-101	3rd Quarter 2009	10.0	4.5	5
Soundproofing - Enhanced	429-706-034-103	3rd Quarter 2009	35.0	15.9	5
Aft Cabin Bulkhead Closeout panel	429-706-060-101	3rd Quarter 2009	45.0	20.4	5, 6
Utility Light Weight Interior	Available as customized installation	4th Quarter 2009	-20.0	-9.1	
Note: All interior option weight values are delta increase or decrease from standard configuration weights.					
PASSENGER SEATING OPTIONS					
Standard Seating - 6-Place, Standard 15.5" seats with 4-point restraint system, quick release disconnects & ICS fixed provisions	429-706-010-117	✓	127.4	57.8	

Specifications subject to change without notice.

Optional Accessory Kits (con't)

Kit Description	Part Number	Availability Status	Wt (lbs)	Wt (kg)	Notes
Standard Wide Seating – 6-Place, Standard 18.5" wide seats with 4-point restraint system, quick release disconnects & ICS fixed provisions	429-706-010-103	✓	140.6	63.8	
Corporate 6-Place Seating, 18.5" wide seats with 3-point restraint system, quick release disconnects & ICS fixed provisions	429-706-010-105	✓	156.9	71.2	
Corporate 5-Place club seating with 1 centre console and side arm rests, 3-point restraint system, quick release disconnects & ICS fixed provisions	429-706-010-107	4th Quarter 2009	174.4	79.1	
Corporate 4-Place club seating with centre consoles and side arm rests, 3-point restraint system, quick release disconnects & ICS fixed provisions	429-706-010-109	4th Quarter 2009	174.2	79.0	
VENDOR KITS – STC					
High Visibility Crew Door Window L/H (Bulged Window)	429-574-101	1st Quarter 2010	2.0	0.9	
High Visibility Crew Door Window R/H (Bulged Window)	429-574-102	1st Quarter 2010	2.0	0.9	
High Visibility Forward Passenger Door Window L/H (Bulged Window)	429-582-101	1st Quarter 2010	4.0	1.8	
High Visibility Forward Passenger Door window R/H (Bulged Window)	429-582-102	1st Quarter 2010	4.0	1.8	
Sliding Window modification for Sliding Passenger Door L/H	429-564-101	1st Quarter 2010	4.4	2.0	
Sliding Window modification for Sliding Passenger Door R/H	429-564-102	1st Quarter 2010	4.4	2.0	
High Visibility Window for Sliding Passenger Door L/H	429-583-101	1st Quarter 2010	4.0	1.8	
High Visibility Window for Sliding Passenger Door R/H	429-583-102	1st Quarter 2010	4.0	1.8	
Automatic Door Openers, Crew (2 door kit)	429-510-001	4th Quarter 2009	2.0	0.9	
Automatic Door Openers, Passenger (2 door kit)	429-510-002	4th Quarter 2009	2.2	1.0	
Wire Strike Protection System Detachable Equipment, skid gear a/c RECOMMENDED	965-42901-011	4th Quarter 2009	18.5	8.4	8

Optional Accessories Explanatory Notes

1. Kits required for Dual Pilot IFR
2. Headliner with adjustable air conditioning vents, p/n 429-706-202-103 or 429-706-202-105, is recommended for more effective cooling when air conditioning is installed.
3. Air Conditioning Quill Drive and Fixed Provisions are included in Standard Configuration.
4. Heater Provisions are included in Standard Configuration.
5. Installation of soundproofing requires installation of the Aft Cabin Bulkhead panel.
6. Standard Heater Equipment requires installation of the Aft Cabin Bulkhead panel.
7. EMS Heater Equipment outlets are configured to accommodate aircraft in which the Aft Cabin Bulkhead panel is not installed.
8. Wire Strike Protection System Provisions are included in Standard Configuration.

Specifications subject to change without notice.

PERFORMANCE CHARTS

FUEL FLOW VS AIRSPEED

ISA & ISA+20°C

PRATT & WHITNEY CANADA

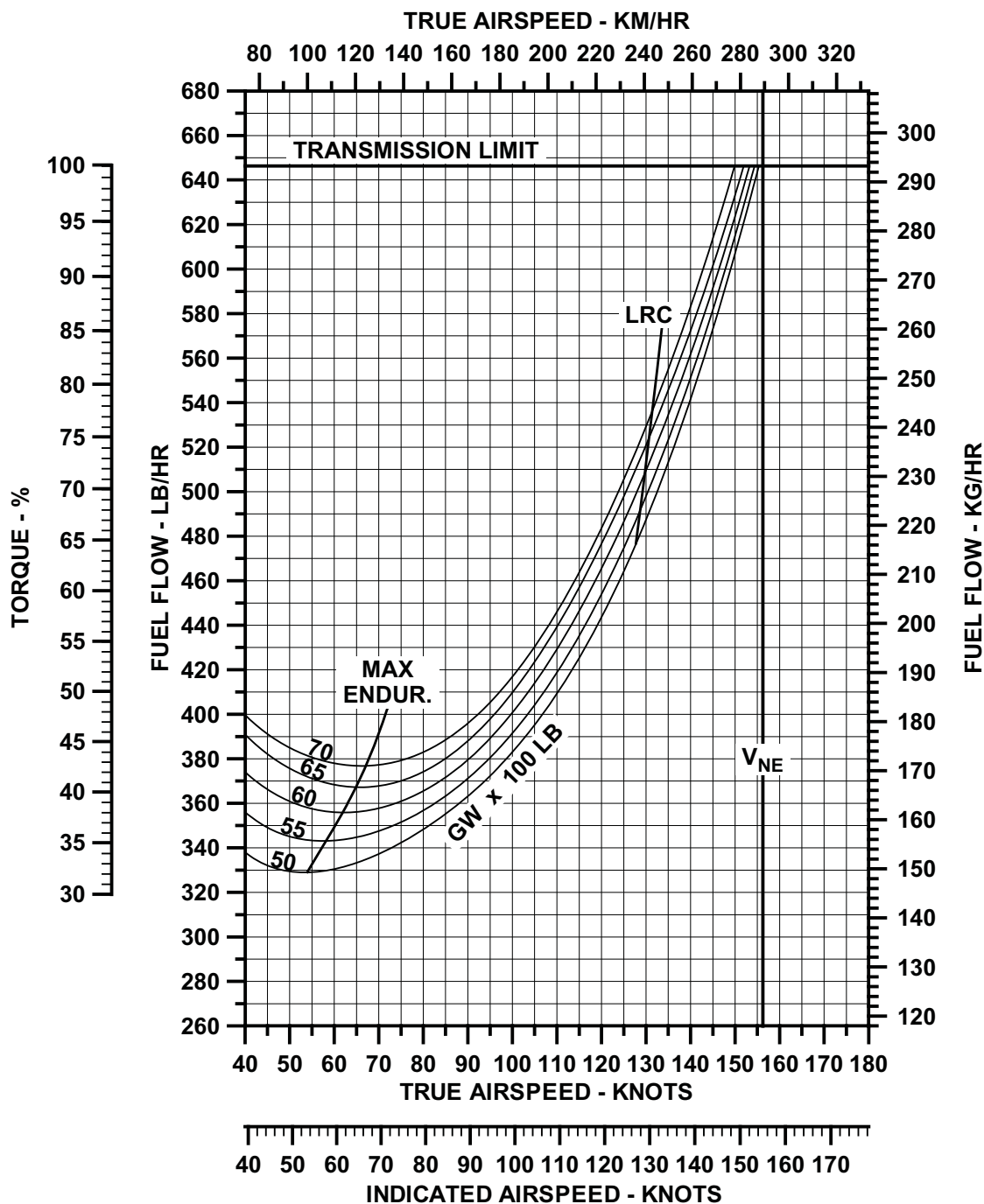
PW207D1 ENGINES

CLEAN INLET BARRIER FILTER INSTALLED

AIR CONDITIONING / HEATER OFF

Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

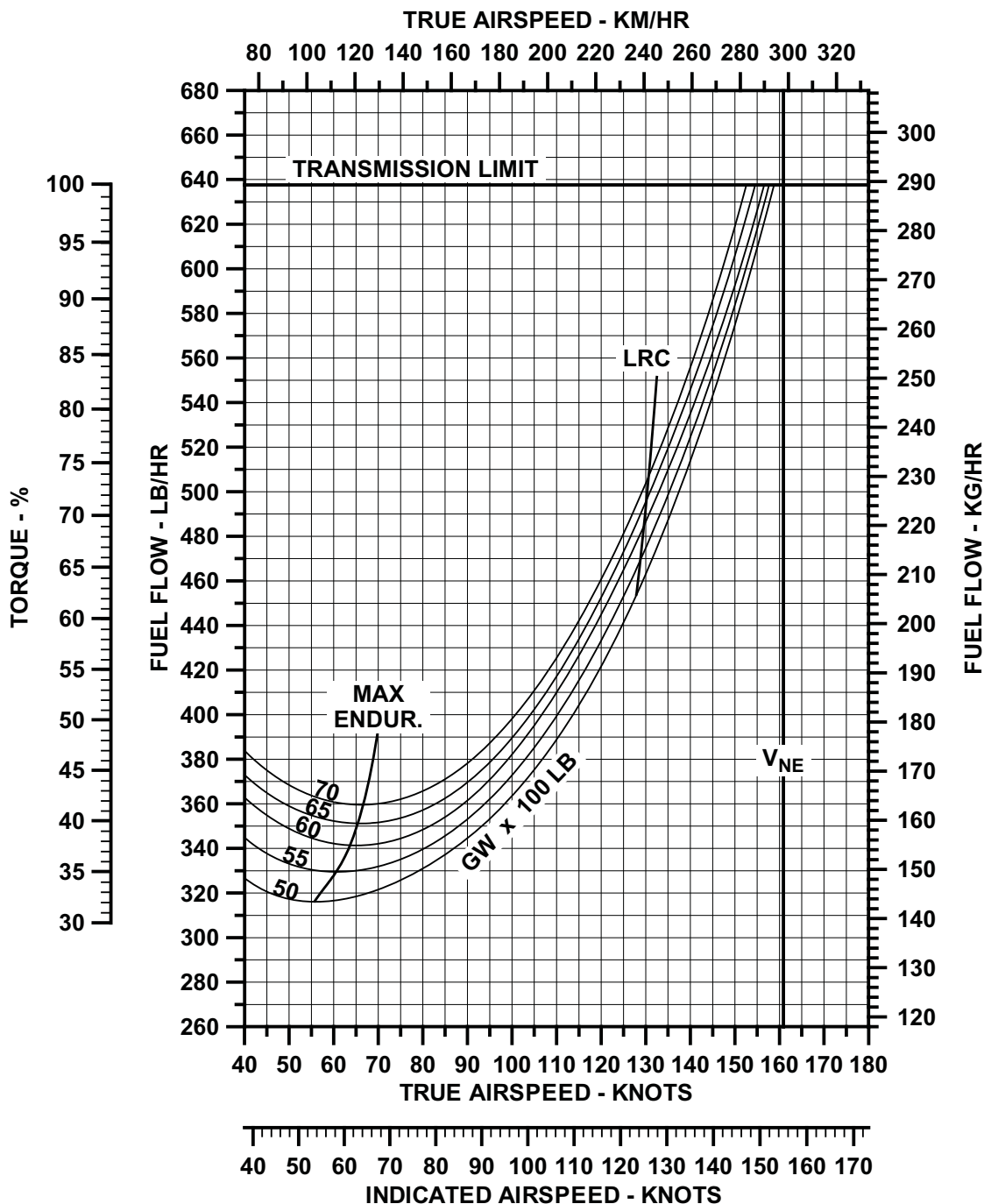
Pressure Altitude = Sea Level
OAT = 15°C (ISA)



The data set forth on this document are general in nature and may vary with conditions.
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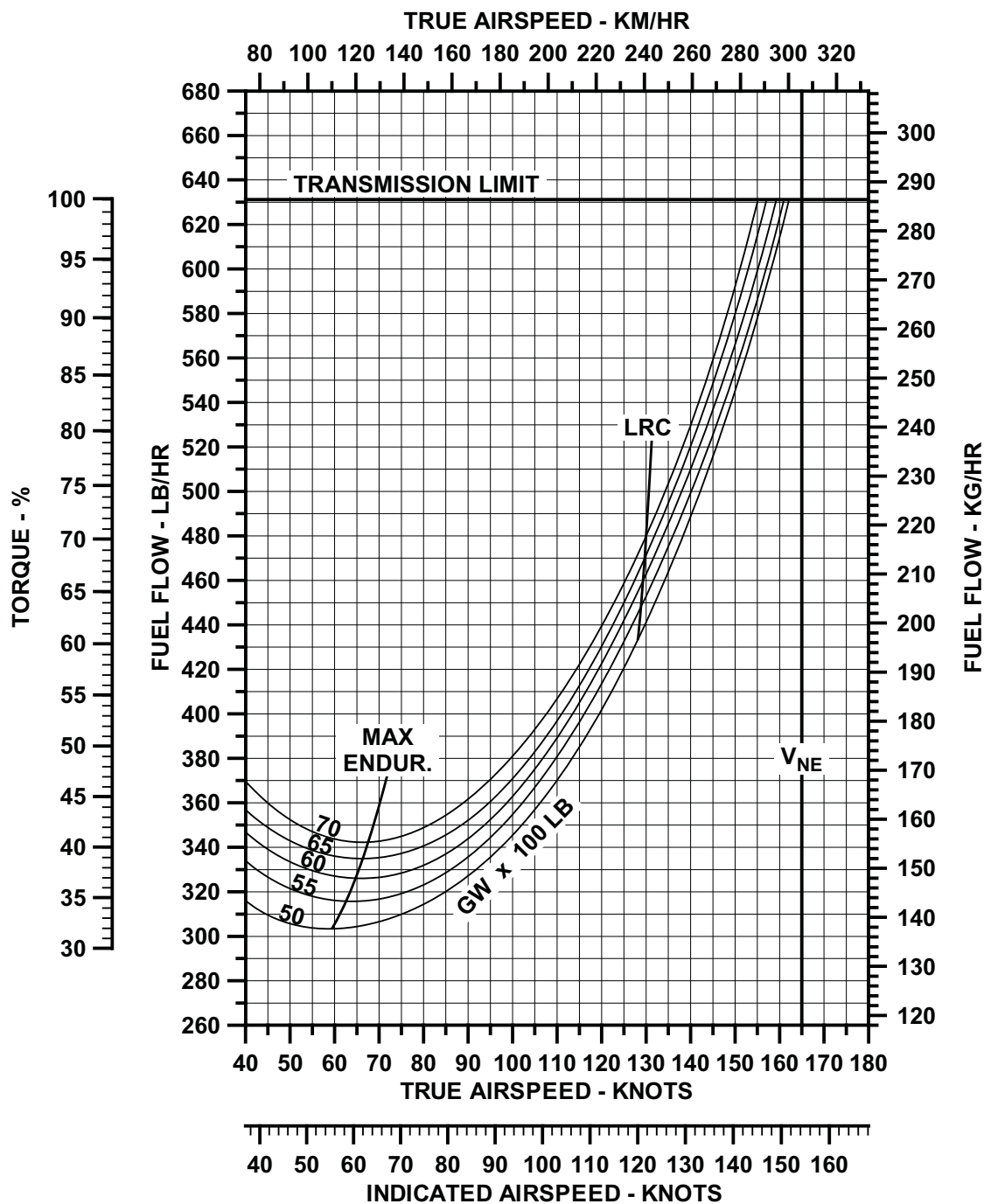
Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

Pressure Altitude = 2000 Ft
OAT = 11°C (ISA)



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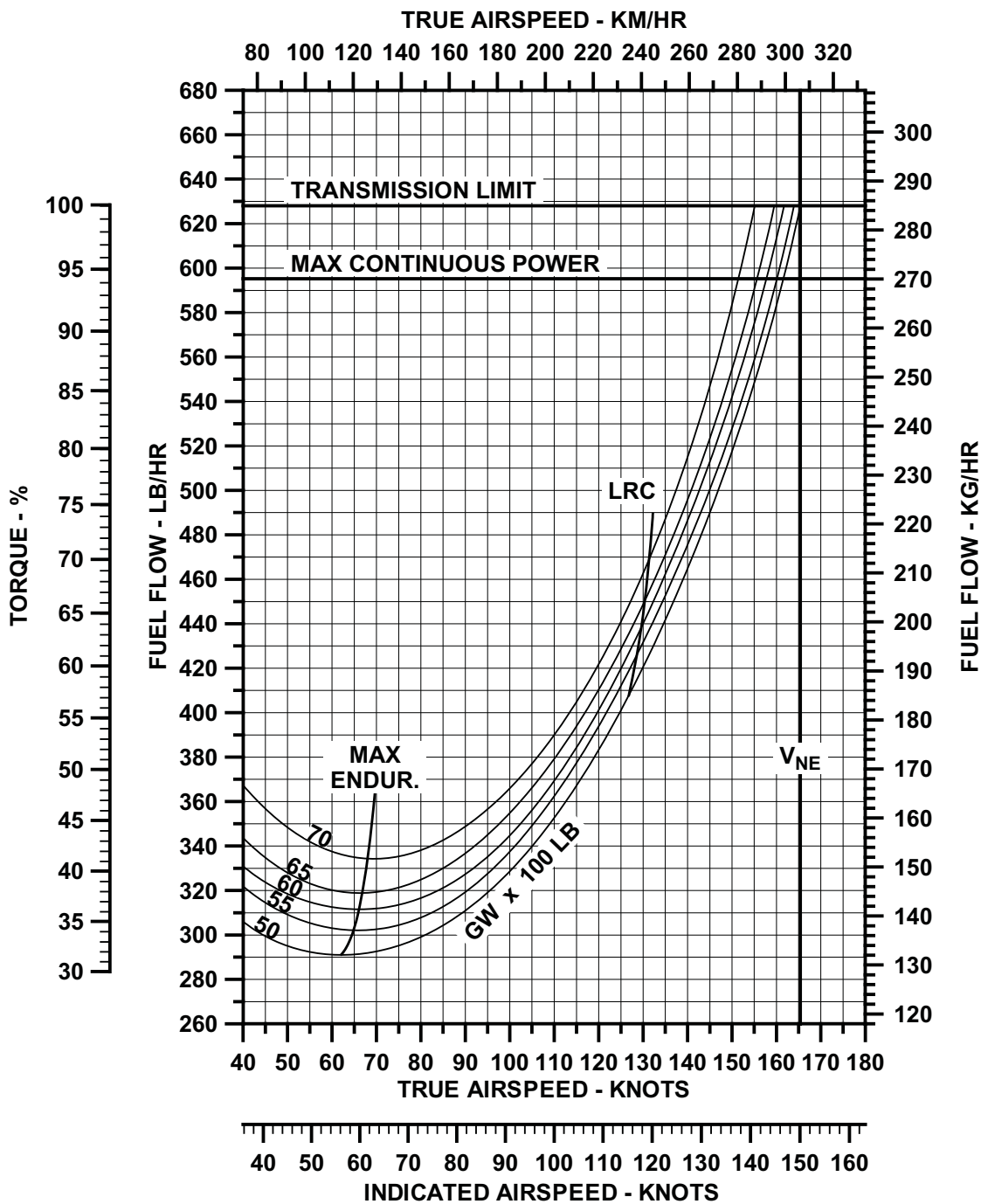
Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind
Pressure Altitude = 4000 Ft.
OAT = 7°C (ISA)



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Fuel Flow vs Airspeed Minimum Specification Engines Clean Inlet Barrier Filter Installed Engine RPM - 100% Zero Wind

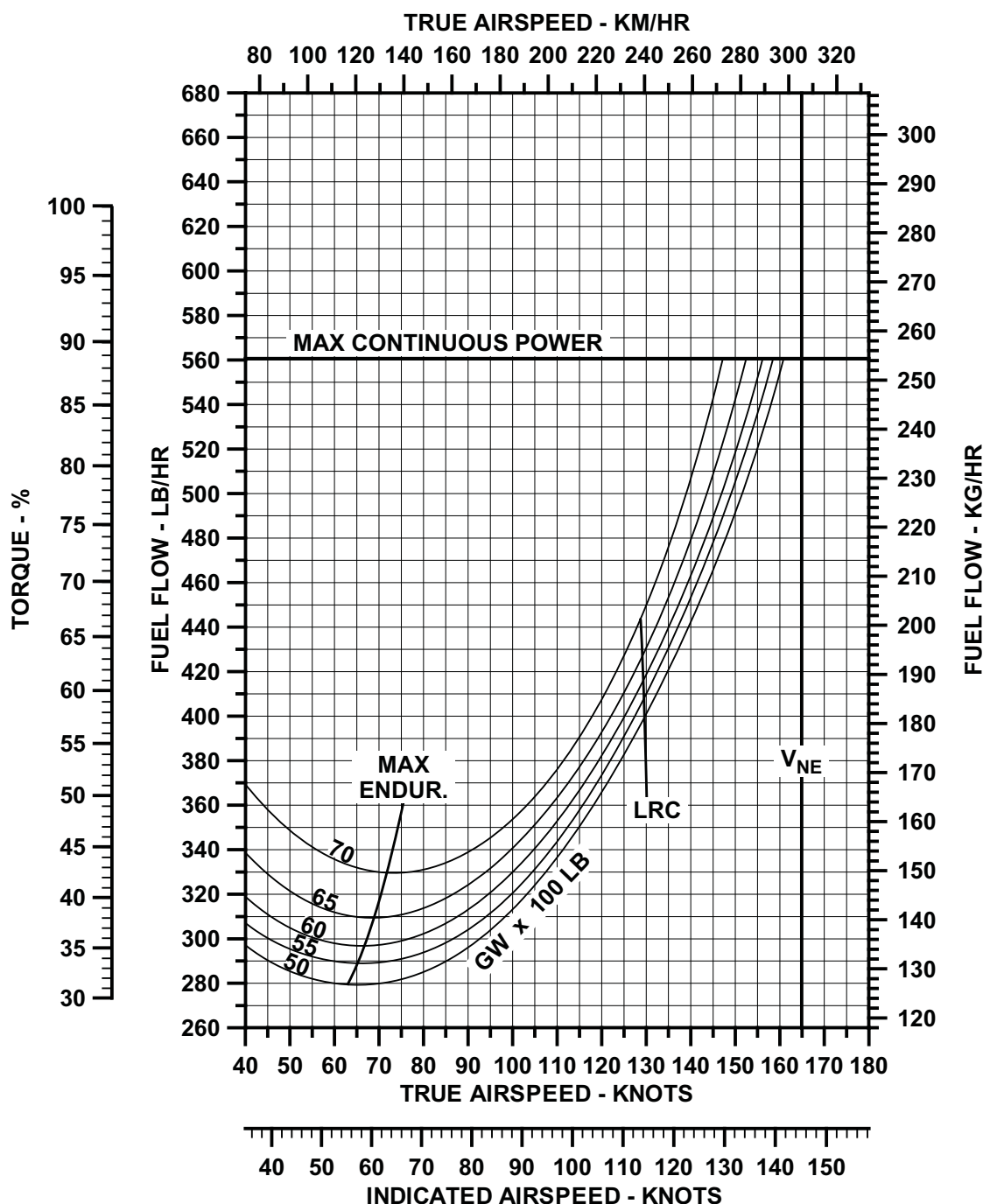
Pressure Altitude = 6000 Ft
OAT = 3°C (ISA)



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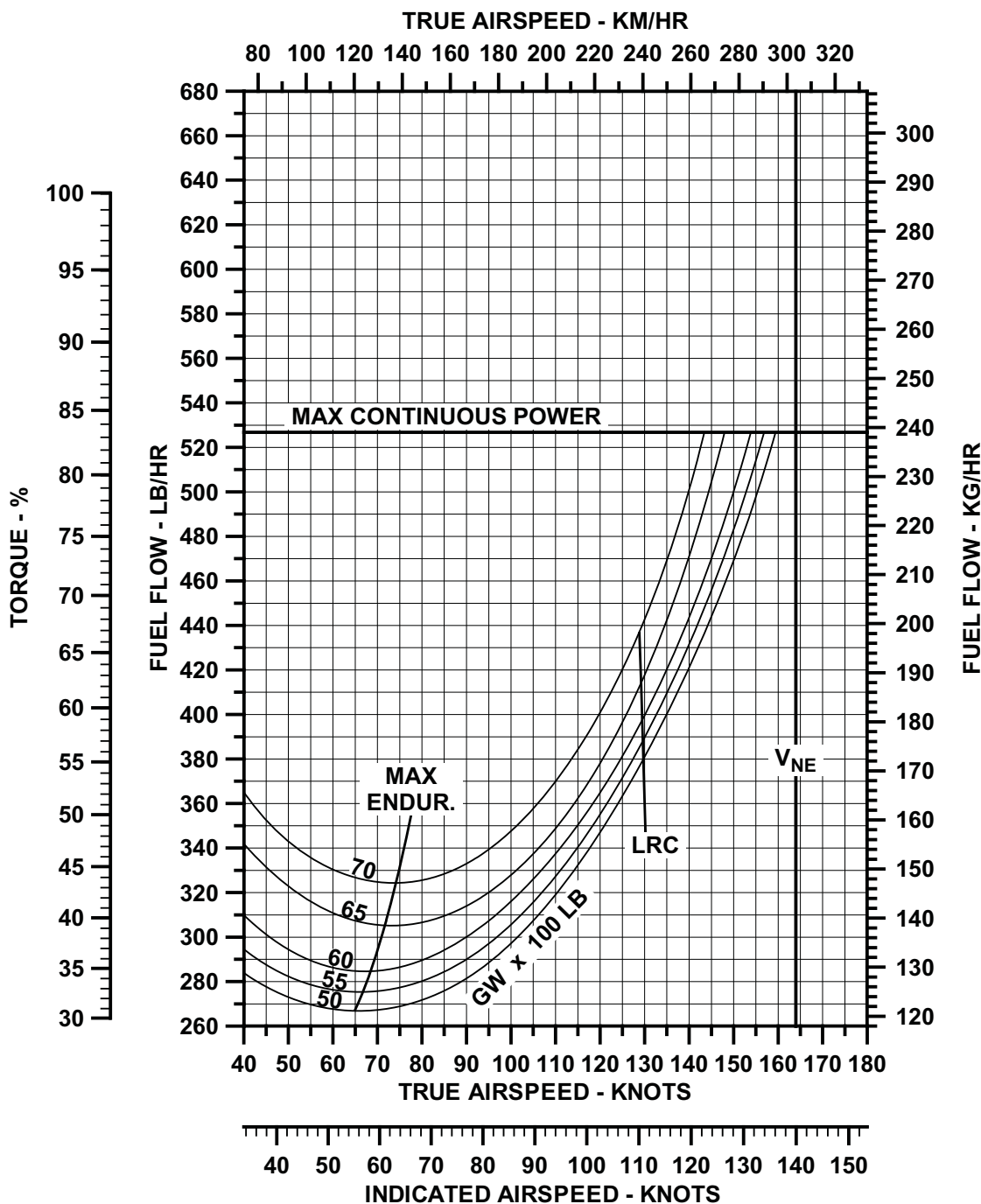
Fuel Flow vs Airspeed **Minimum Specification Engines** **Clean Inlet Barrier Filter Installed** **Engine RPM - 100%** **Zero Wind**

Pressure Altitude = 8000 Ft.
OAT = -1°C (ISA)



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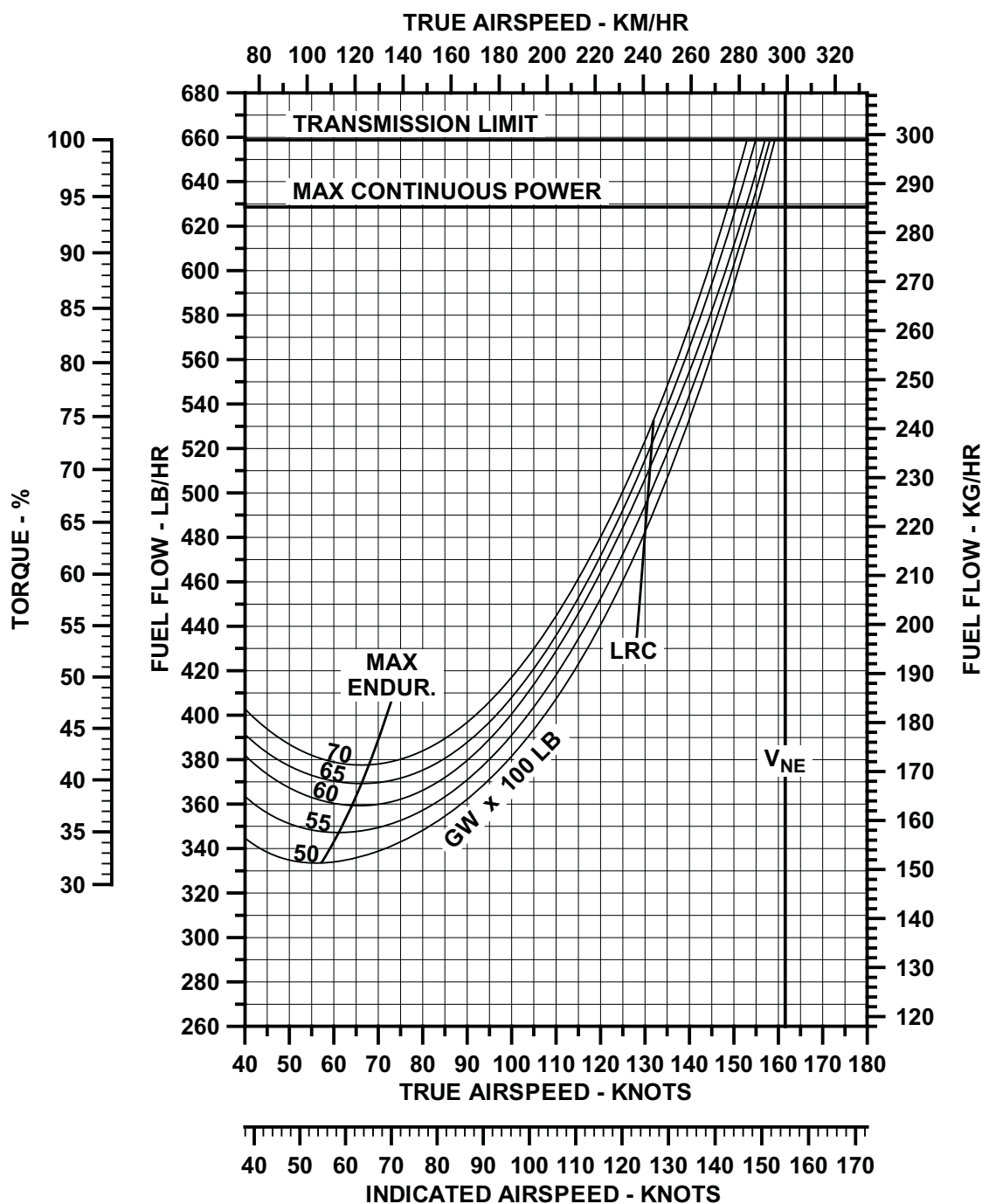
Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind
Pressure Altitude = 10,000 Ft
OAT = -5°C (ISA)



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Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

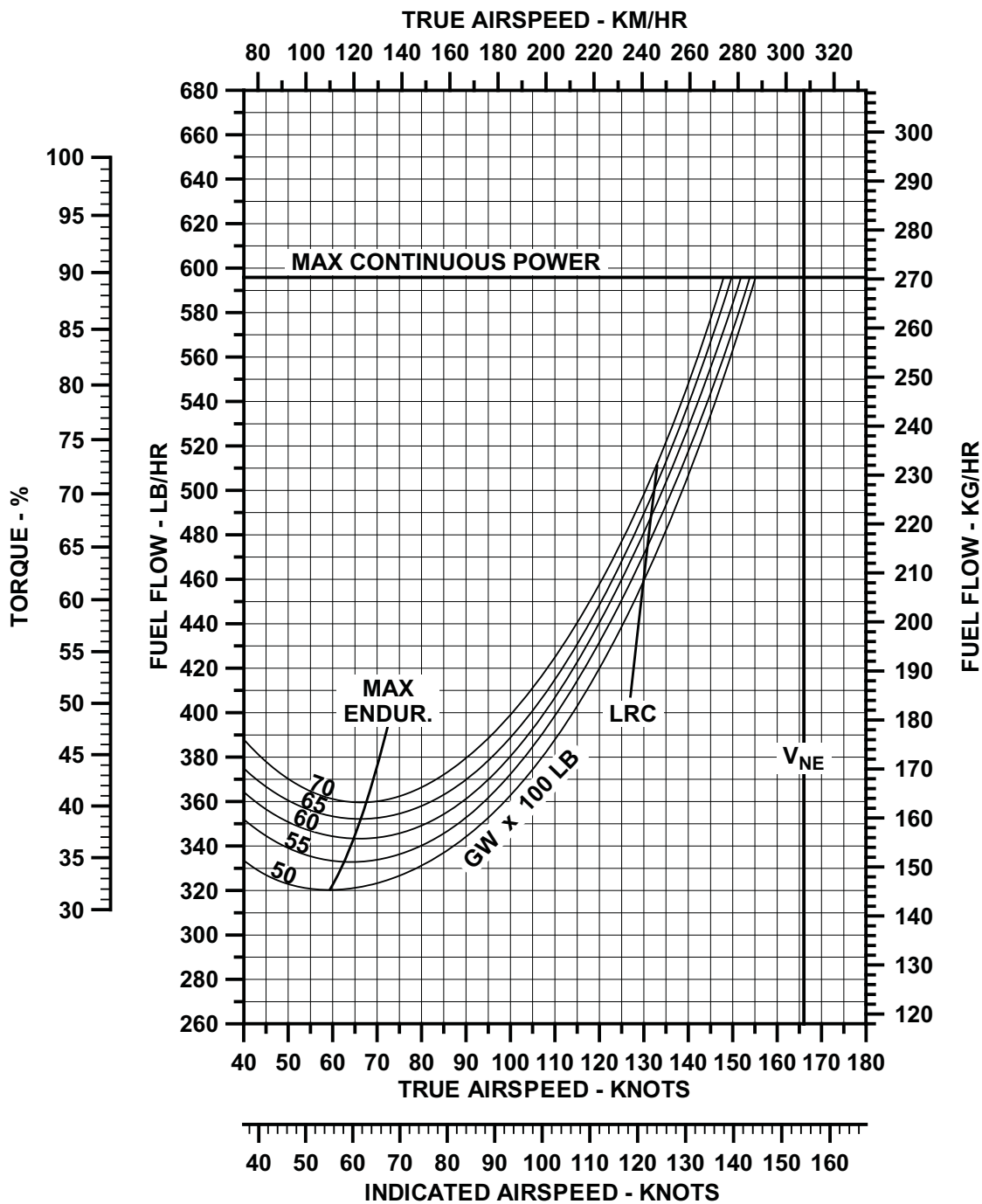
Pressure Altitude = Sea Level
OAT = 35°C (ISA+20°C)



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Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

Pressure Altitude = 2000 Ft
OAT = 31°C (ISA+20°C)

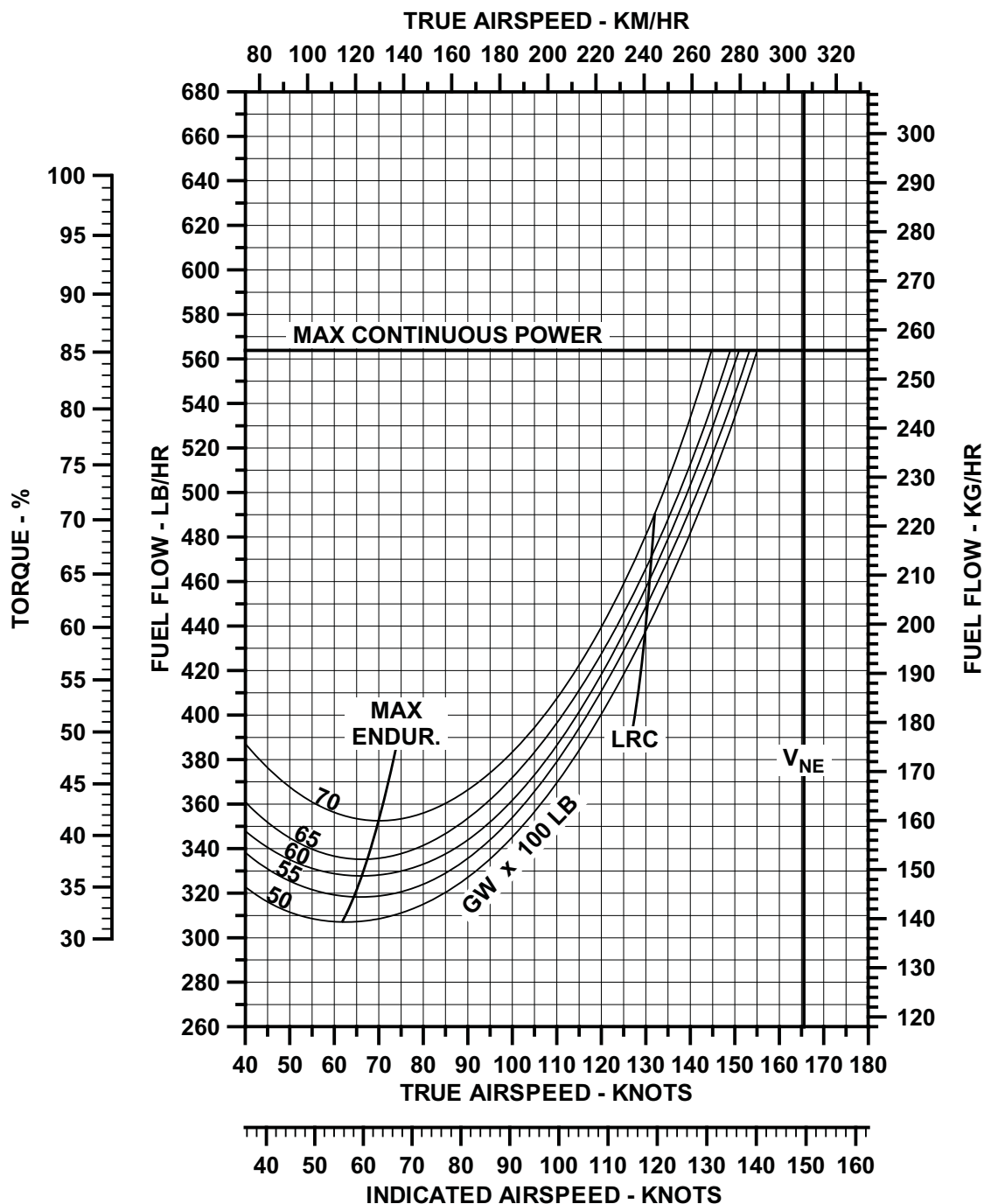


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Fuel Flow vs Airspeed

Minimum Specification Engines Clean Inlet Barrier Filter Installed Engine RPM - 100% Zero Wind

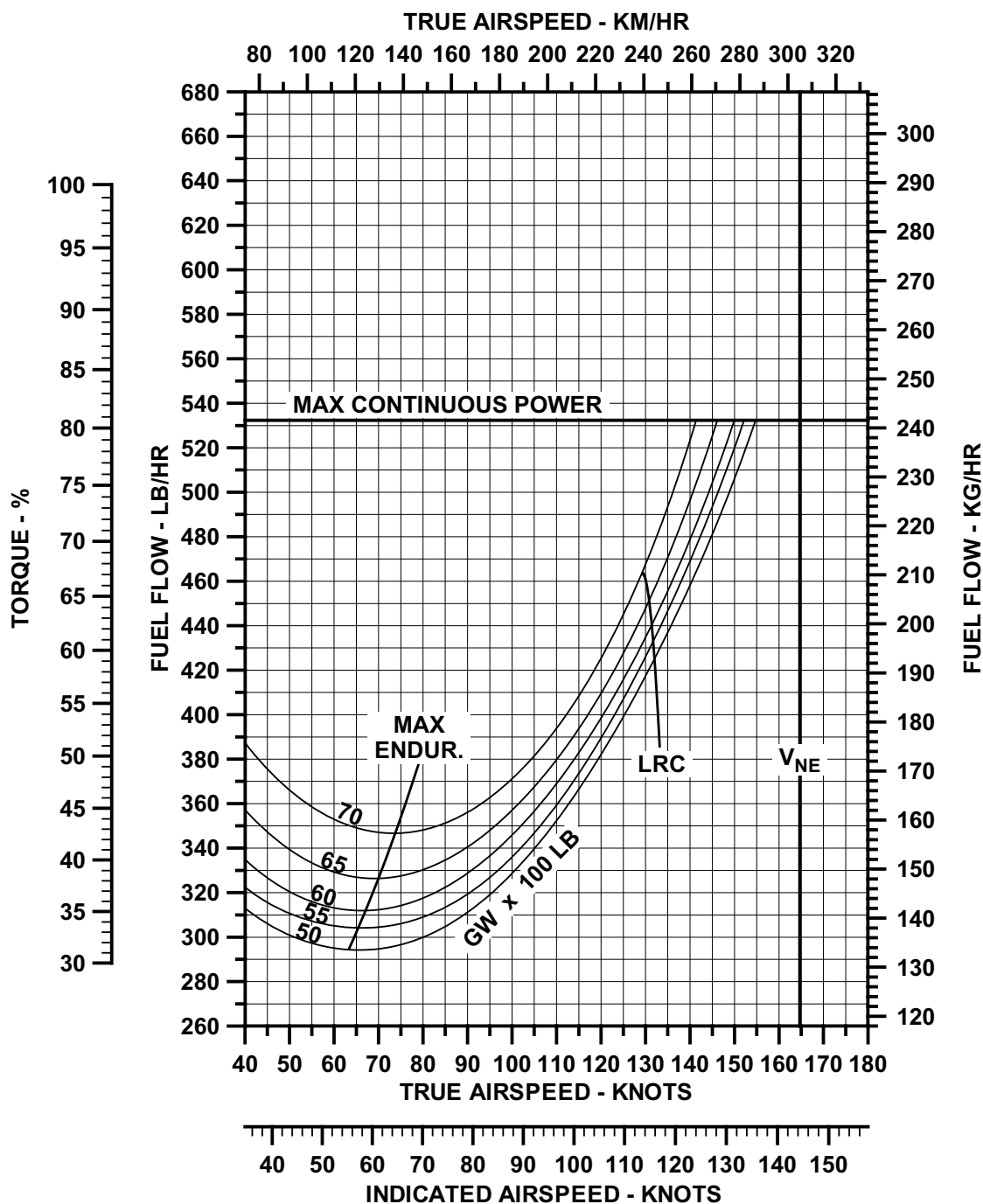
Pressure Altitude = 4000 Ft.
OAT = 27°C (ISA+20°C)



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Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

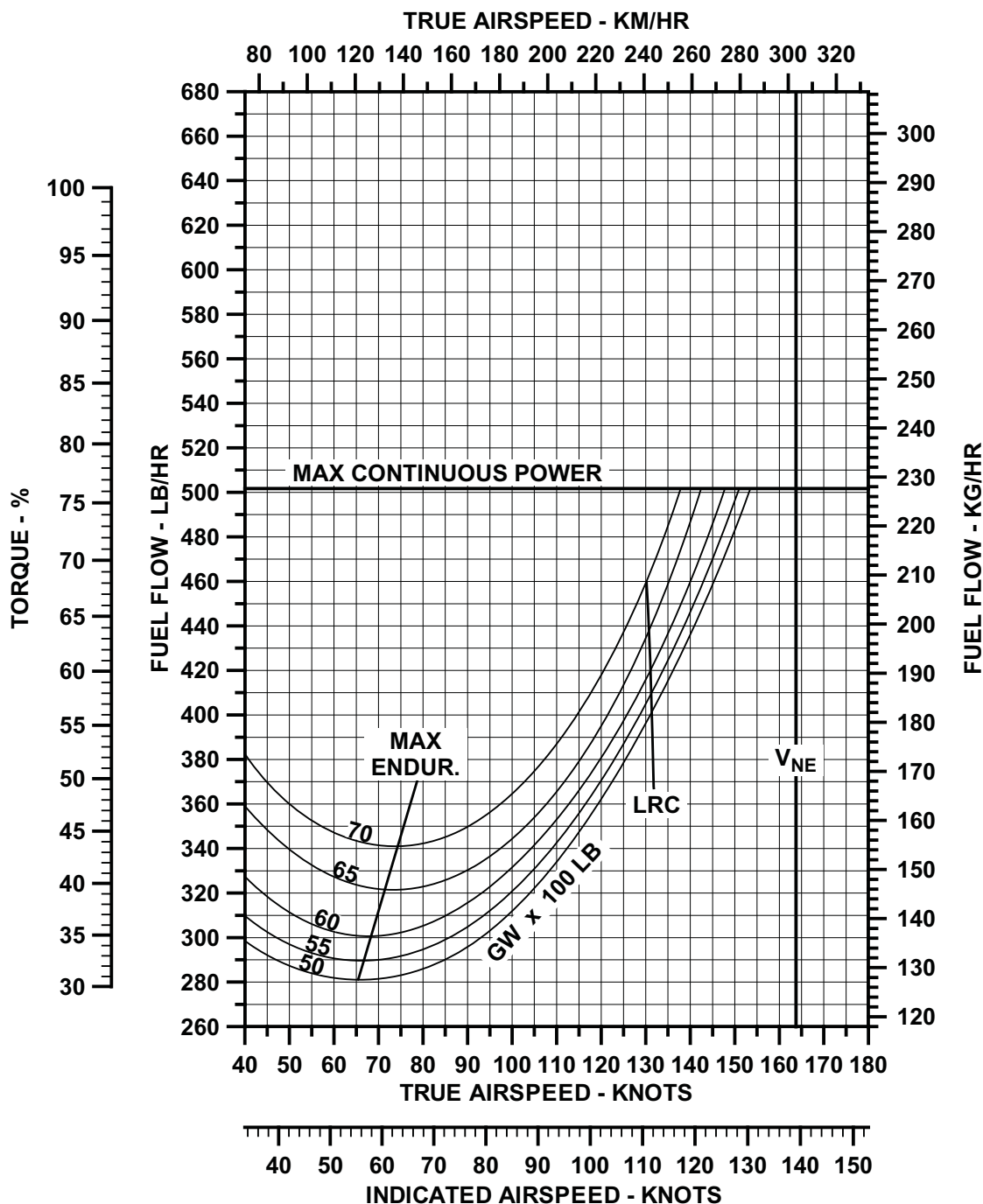
Pressure Altitude = 6000 Ft
OAT = 23°C (ISA+20°C)



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Fuel Flow vs Airspeed
Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

Pressure Altitude = 8000 Ft.
OAT = 19°C (ISA+20°C)

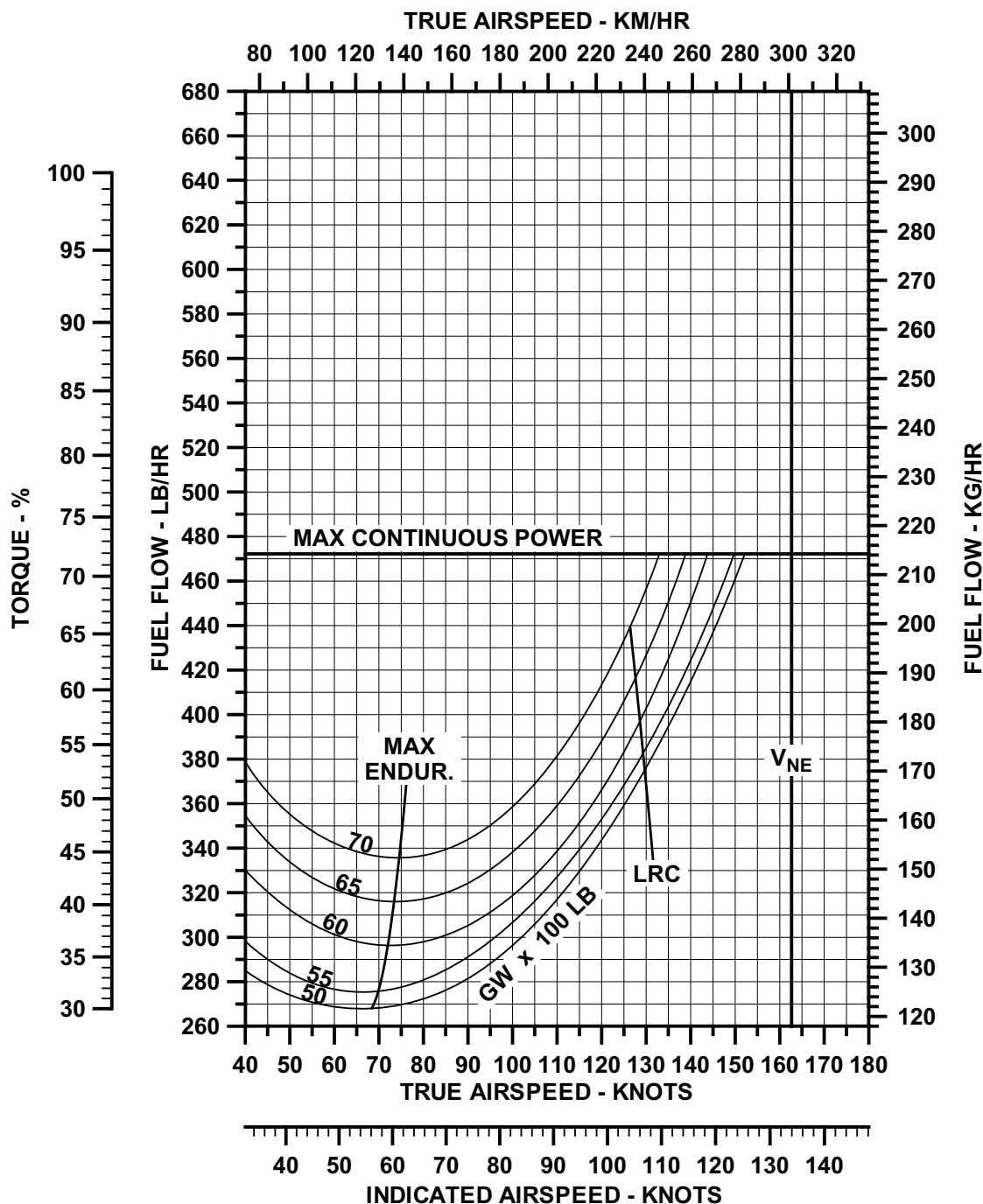


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Fuel Flow vs Airspeed

Minimum Specification Engines
Clean Inlet Barrier Filter Installed
Engine RPM - 100%
Zero Wind

Pressure Altitude = 10,000 Ft
OAT = 15°C (ISA+20°C)

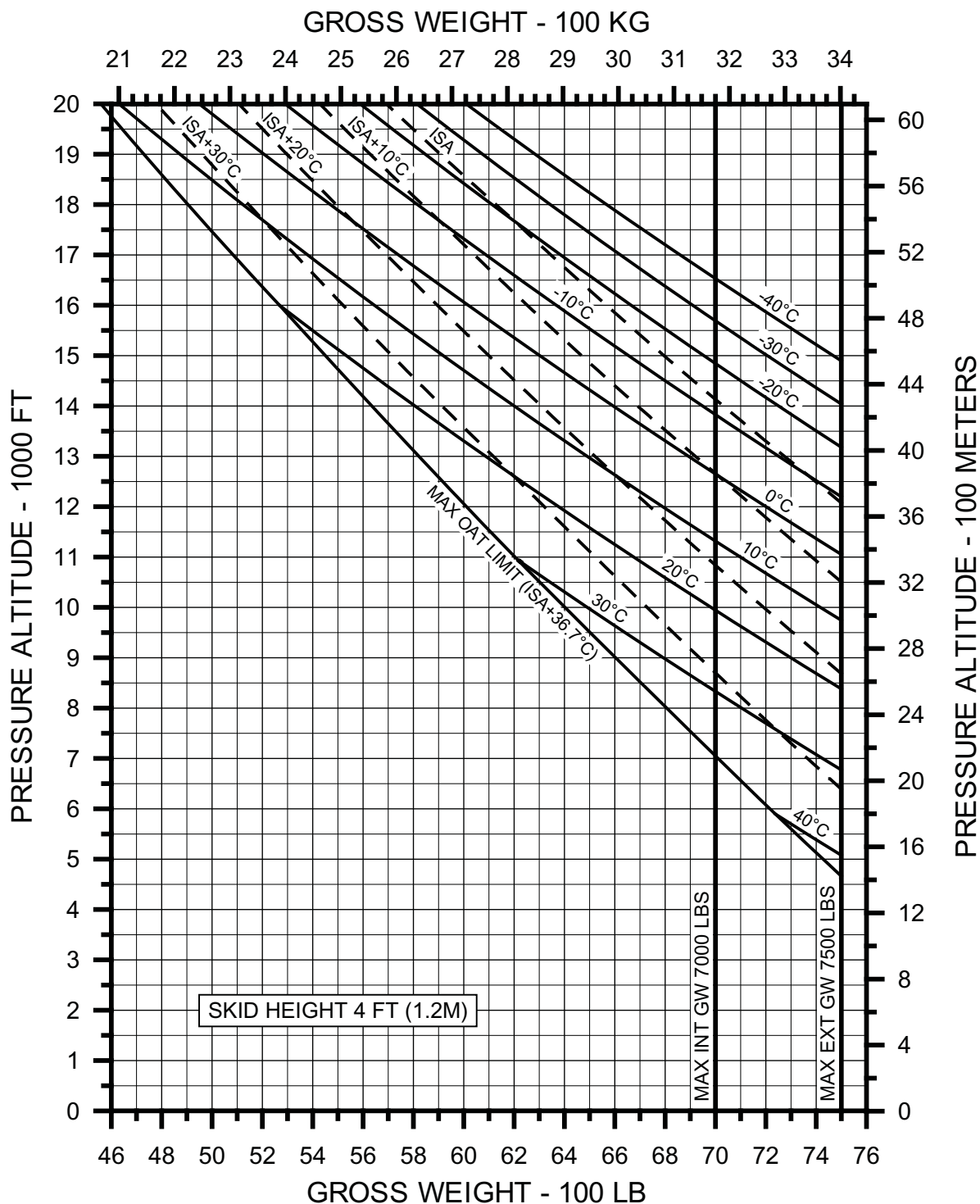


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PERFORMANCE CHARTS
IGE & OGE HOVER, SERVICE CEILING
PRATT & WHITNEY CANADA
PW207D1 ENGINES
CLEAN INLET BARRIER FILTER INSTALLED

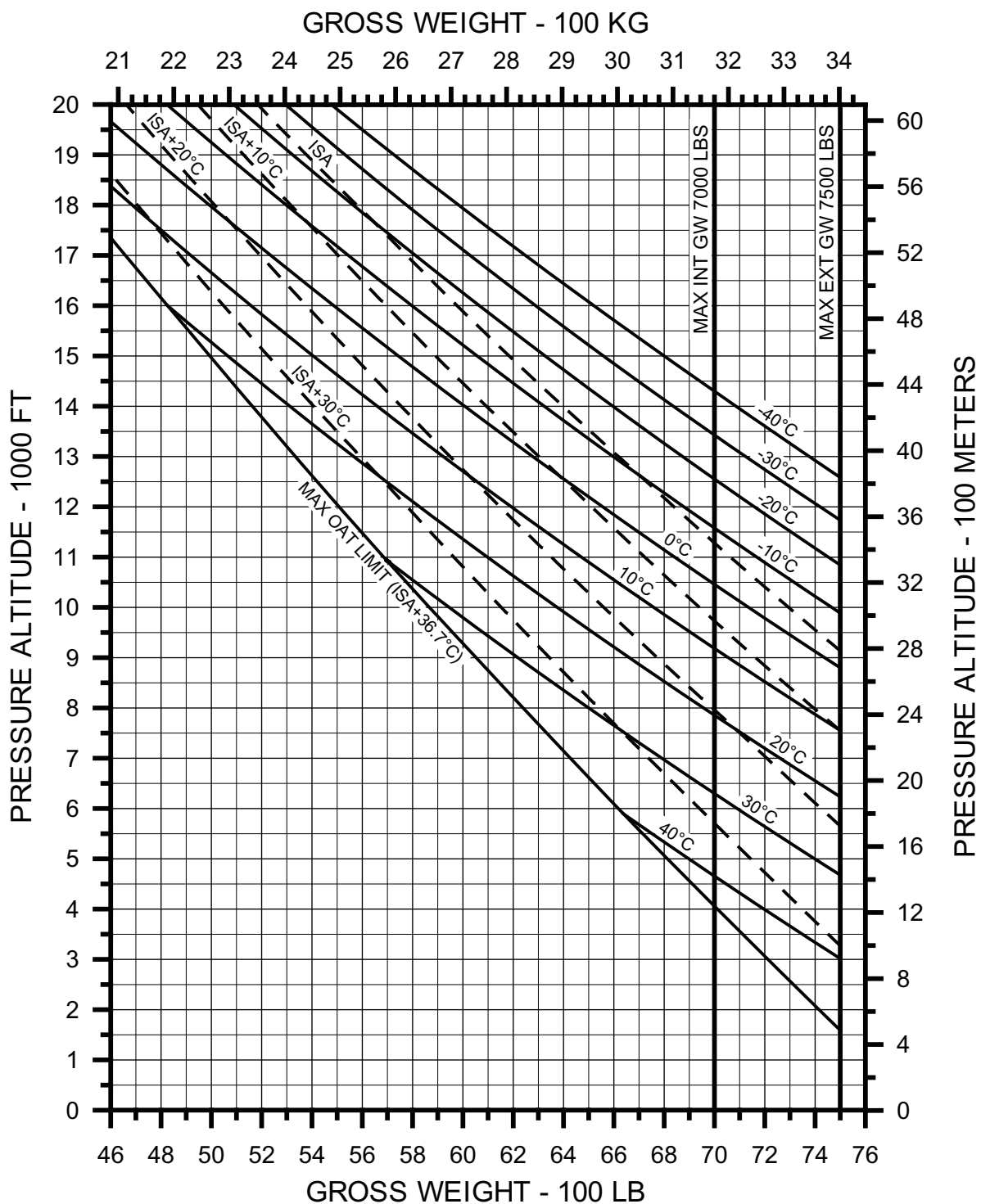
The data set forth on this document are general in nature and may vary with conditions.
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IGE Hover Ceiling Twin Engine Operation At Takeoff Power Clean Inlet Barrier Filter Installed Zero Wind or Headwind



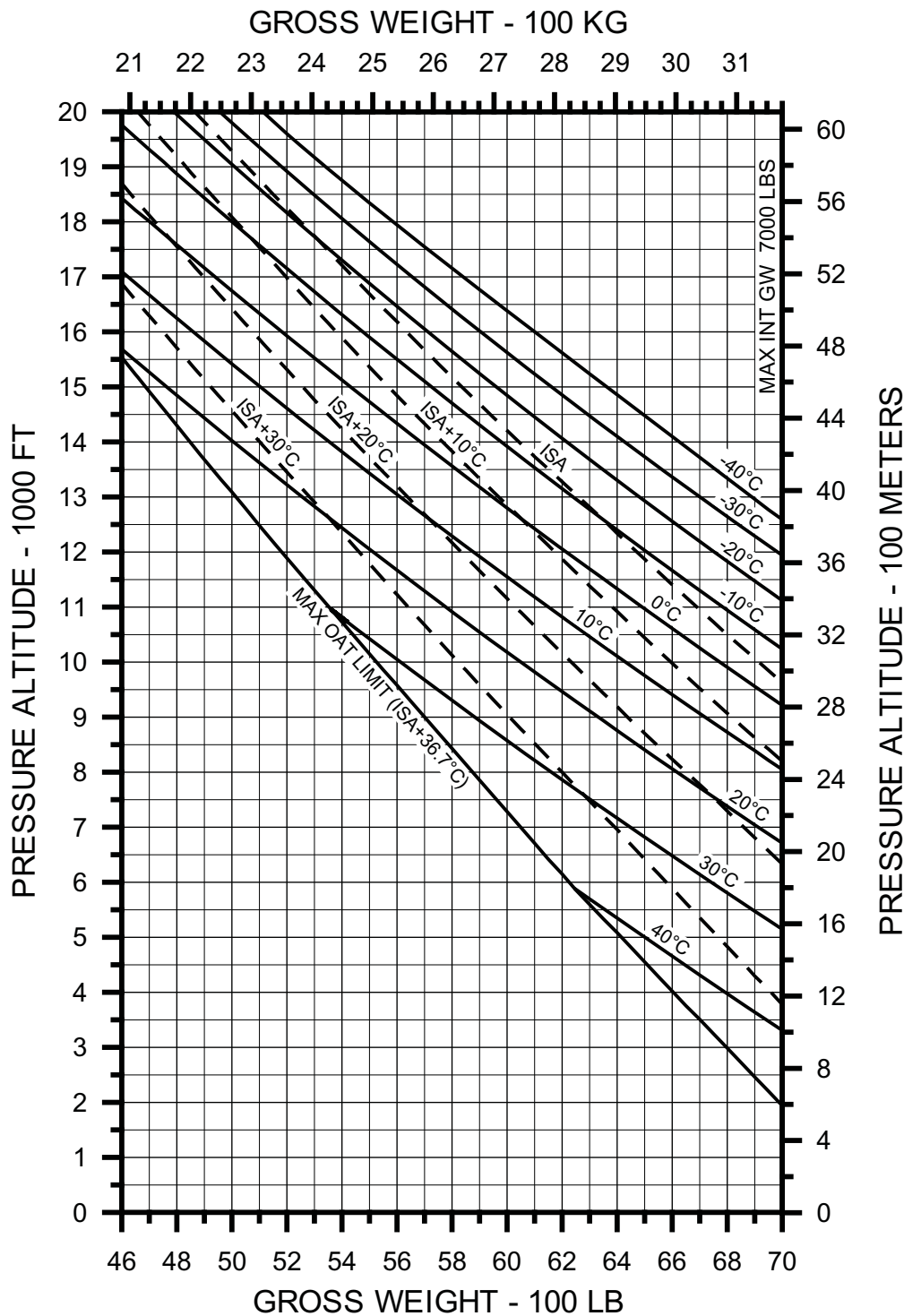
The data set forth on this document are general in nature and may vary with conditions.
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OGE Hover Ceiling **Twin Engine Operation At Takeoff Power** **Clean Inlet Barrier Filter Installed** **Zero Wind or Headwind**



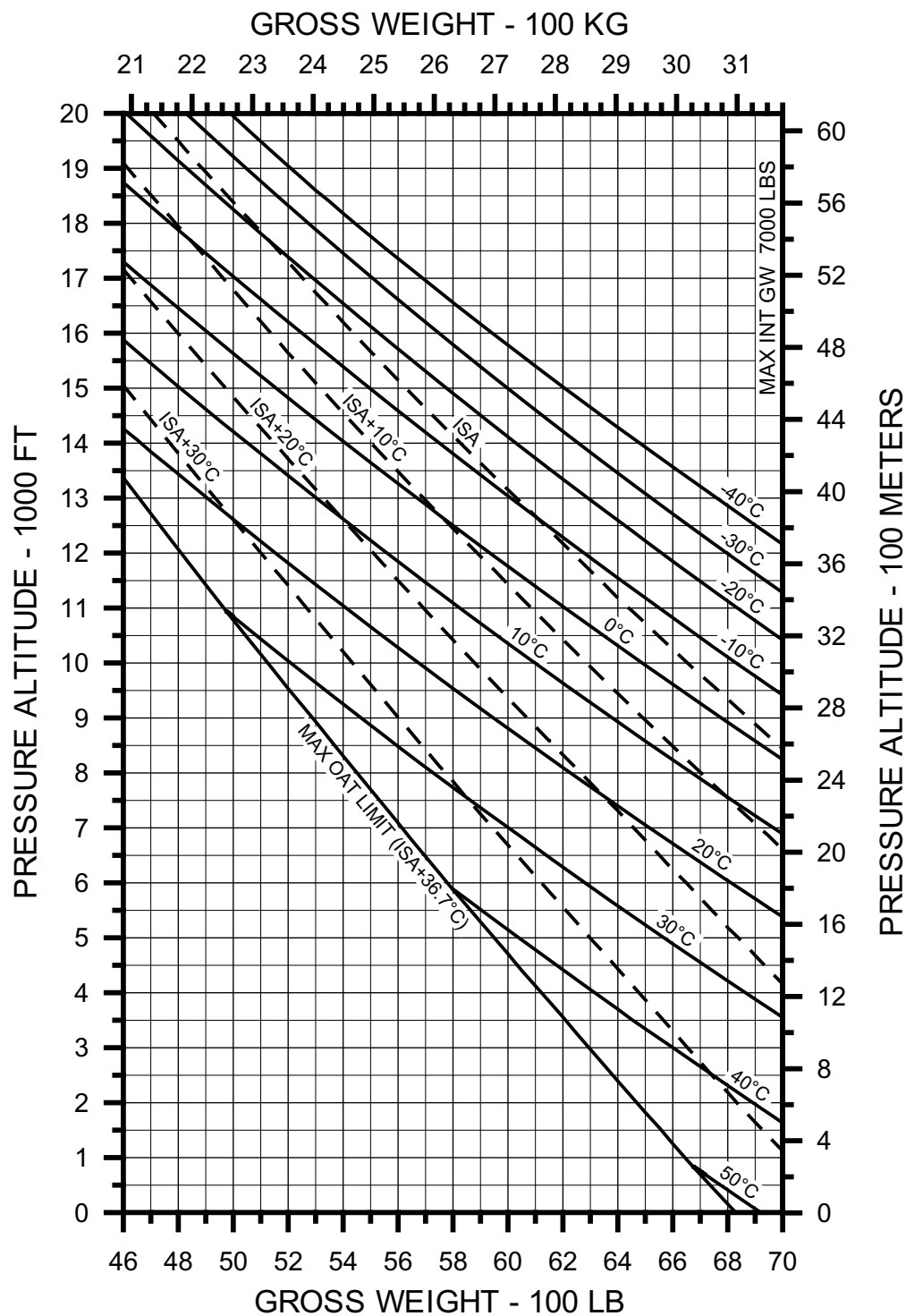
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OEI Service Ceiling
OEI 30-Minute Power
Clean Inlet Barrier Filter Installed
Zero Wind or Headwind



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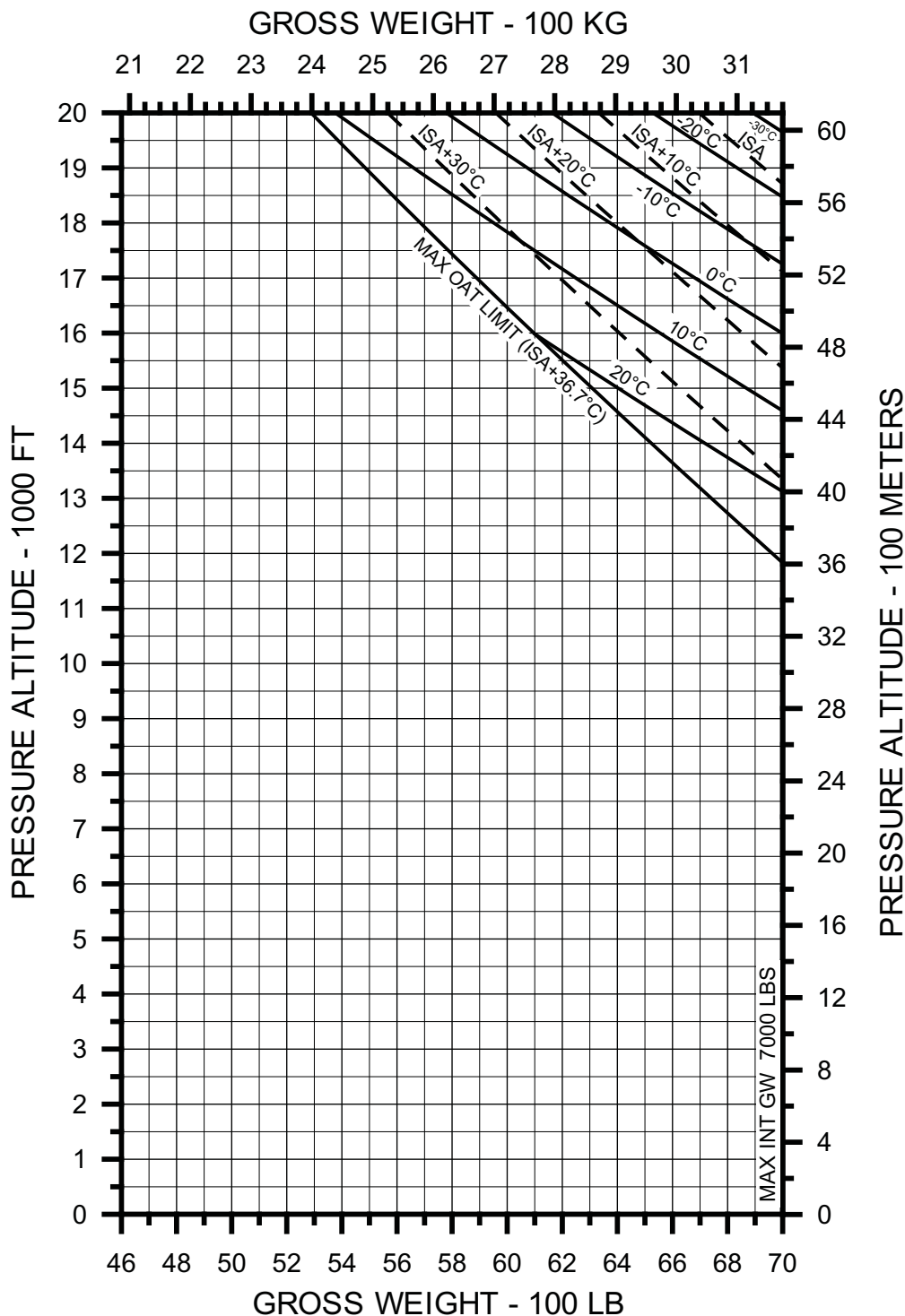
OEI Service Ceiling
OEI Max Continuous Power
Clean Inlet Barrier Filter Installed
Zero Wind or Headwind



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Service Ceiling

**Twin Engine Max Continuous Power
Clean Inlet Barrier Filter Installed
Zero Wind or Headwind**



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