

Hawker 800XP Weight Statement

Hawker 800XP

Design Weights

Max. Ramp Weight.....	28,120 lb.	12,755 kg.
Max. Takeoff Weight	28,000 lb.	12,700 kg.
Max. Landing Weight.....	23,350 lb.	10,591 kg.
Max. Zero Fuel Weight	18,450 lb.	8,369 kg.
Fuel Capacity.....	10,000 lb.	4,536 kg.

Weight Breakdown

Basic Empty Weight *	15,497 lb.	7,029 kg.
2 pilots.....	400 lb.	181 kg.
Aircraft & Jepp. Manuals	35 lb.	16 kg.
TKS Fluid.....	84 lb.	38 kg.
Oxygen.....	8 lb.	4 kg.
Galley Water and Supplies.....	110 lb.	50 kg.
Toilet & Lav. Water	32 lb.	15 kg.
<hr/>		
Basic Operating Weight	16,166 lb.	7,333 kg.

Typical Options:

Magnastar C2000 Digital Airborne Telephone.....	18 lb.	8 kg.
Airshow Network System and Cabin Briefer	11 lb.	5 kg.
Cabin Audio/Video Entertainment System	23 lb.	10 kg.
Second LCD Monitor	8 lb.	4 kg.
Long Range Oxygen Bottle (1,000 ltr).....	19 lb.	9 kg.

Typically Equipped Basic Operating Weight..... 16,245 lb. 7,369 kg.

Max. Payload.....	2,205 lb.	1,000 kg.
Max. Payload w/ Full Fuel.....	1,875 lb.	850 kg.
Useful Load.....	11,875 lb.	5,386 kg.

* Basic Empty Weight includes unusable fuel, oil, standard interior, auxiliary power unit (APU) and avionics

Specifications and Performance

Hawker 800XP

Characteristics

Seating (Crew + Pax)	2 + 8 / 15
Wing Loading	74.9 lb./Sq. ft.
Power Loading	3.00 lb./lb. thrust
Noise: Takeoff.....	79.3 dBA

External Dimensions

Length.....	51 ft. 2 in.	(15.60 m)
Height.....	18 ft. 1 in.	(5.51 m)
Span.....	51 ft. 4 in.	(15.66 m)

Engines

Manufacturer.....	Honeywell
Model.....	TFE731-5BR
Output	4,660/ISA+10°C
Inspection Interval.....	4,200 hrs.

Weights

Max Ramp.....	28,120 lb.	(12,755 kg.)
Max Takeoff.....	28,000 lb.	(12,700 kg.)
Max Landing.....	23,350 lb.	(10,591 kg.)
Max Zero Fuel.....	18,450 lb.	(8,369 kg.)
Basic Operating.....	16,245 lb.	(7,369 kg.)

Payload / Capacities

Max Payload.....	2,205 lb.	(1,000 kg.)
Useful Load.....	11,875 lb.	(5,386 kg.)
Max Fuel Capacity.....	10,000 lb.	(4,536 kg.)
(1 U.S. gal = 6.7 lb./U.S. gal.).....	1,492 US gal.	
Payload w/max fuel.....	1,875 lb.	(850 kg.)
Fuel w/max payload.....	9,670 lb.	(4,386 kg.)

Specifications and Performance (continued)

Hawker 800XP

Cabin Dimensions

Length.....	21 ft. 4 in.	(6.49 m)
Height	5 ft. 9 in.	(1.75 m)
Width.....	6 ft. 0 in.	(1.83 m)

Cabin Volume

Cockpit.....	100 cu. ft.	(2.83 cu. m)
Passenger Cabin	604 cu. ft.	(17.1 cu. m)
Total Volume.....	704 cu. ft.	(19.93 cu. m)

Baggage Capacity (Standard Layout)

Internal Forward Compartment	33 cu. ft. 250 lb.	(0.93 cu. m/113 kg.)
Rear Closet (Cabin).....	12 cu. ft. 100 lb.	(0.34 cu. m/45 kg.)
Rear Closet (Lav).....	3 cu. ft. 45 lb.	(0.08 cu. m/20 kg.)
Total.....	48 cu. ft. 395 lb.	(1.35 cu. m / 179 kg.)

Pressurization

Differential.....	8.6 PSI
Sea Level Cabin To (ft.)	22,200 ft.

Specifications and Performance (continued)

Hawker 800XP

Airport Performance

Takeoff Field Length

Max. TO Wt., SL, ISA	5,030 ft.	(1,533 m)
26,964 lb. TOW, 5,000 ft. elev, 25°C/77°F	7,965 ft.	(2,428 m)

Landing Distance

Max Landing Wt., SL, ISA	2,650 ft.	(808 m)
V _{ref}	127 kt	

Climb Performance (Max Takeoff Weight)

Time to Climb / Altitude	20 min / FL 370	
FAR 25 Engine-out Rate	470 fpm	(143 m/min)
FAR 25 Engine-out Gradient	201 ft/nm	(33 m/km)

Ceilings

Certified	41,000 ft.	(12,497 m)
All Engine Service.....	39,000 ft.	(11,887 m)
Engine-out Service.....	18,800 ft.	(5,730 m)

Cruise Performance

High Speed Cruise

Speed	447 kt/514 mph	(828 km/hr)
Fuel Flow.....	1,824 lb./hr.	(827 kg./hr)
Altitude	FL 370	

Intermediate Cruise Speed

Speed	428 kt/493 mph	(793 km/hr)
Fuel Flow.....	1,528 lb./hr.	(693 kg./hr)
Altitude	FL 410	

Long Range Cruise

Speed.....	402 kt/463 mph	(745 km/hr)
Fuel Flow.....	1,209 lb./hr.	(548 kg./hr)
Altitude	FL 390	

Specifications and Performance (continued)

Maximum Range Performance (NBAA IFR reserves)

Maximum Payload with Available Fuel (2,205 lb. payload)

Range	2,285 nm	4,232 km
Average Speed.....	393 kt.	728 km/hr
Trip Fuel.....	7,921 lb.	3,593 kg.

Maximum Fuel with Available Payload (1,875 lb. payload)

Range	2,407 nm	4,458 km
Average Speed.....	392 kt.	726 km/hr
Trip Fuel.....	8,308 lb.	3,768 kg.

4 passengers (800 lb. payload)

Range	2,540 nm	4,704 km
Average Speed.....	394 kt.	730 km/hr
Trip Fuel.....	8,366 lb.	3,795 kg.

Ferry (Zero payload)

Range	2,621 nm	4,854 km
Average Speed.....	394 kt.	730 km/hr
Trip Fuel.....	8,409 lb.	3,814 kg.

Mission Performance (4 passengers)

300 nm mission

Flight Time.....	0 hr. 50 min	
Trip Fuel.....	1,330 lb.	603 kg.
Flight Level.....	FL 370	

600 nm mission

Flight Time.....	1 hr. 33 min	
Trip Fuel.....	2,253 lb.	1,022 kg.
Flight Level.....	FL 390	

1,000 nm mission

Flight Time.....	2 hr. 29 min	
Trip Fuel.....	3,554 lb.	1,612 kg.
Flight Level.....	FL 390	