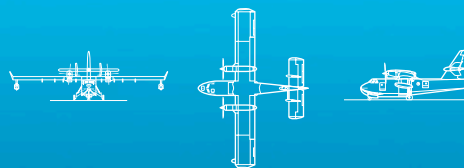


The Bombardier 415\* amphibious aircraft is the most advanced firefighting aircraft in the world. It is capable of scooping 1,621 U.S. gallons (6,137 litres) of water from nearby sources without the need to land at an airport, providing sustained aerial attack to contain fires.



**Bombardier**  
**415**

# Bombardier 415



The aircraft is an enhancement of the proven CL-215\* and features turboprop engines, increased fire suppressant capacity and digital avionics. The aircraft can also be configured for other roles including maritime search and rescue, surveillance and utility transport. Deliveries commenced in November 1994.

## General

Crew	2
Occupants	8

## Engines

Number	2 Pratt & Whitney Canada PW123AF turboprops	
Power	2,380 shp	
Propellers	Hamilton Standard 14SF-19 four-blade, reversible pitch	

## Avionics

Honeywell EDZ-605 four-tube EFIS  
Three-screen Integrated Instrument Display System  
Dual Honeywell Primus II nav/comm systems

## Performances<sup>1</sup>

### Maximum ferry range

1,310 NM 1,508 SM 2,427 km

### Speed

High cruise true  
airspeed at 5,000 ft (ISA) 194 kts 223 mph 359 km/h

### Airfield/Water Performance

#### Takeoff distance

Non-disposable load (land)	2,750 ft	838 m
Non-disposable load (water)	2,670 ft	813.8 m
Landing distance (land)	2,210 ft	674 m
Landing distance (water)	2,180 ft	664 m
Initial rate of climb at 47,000 lb	1,300 ft/min	6.6 m/sec
Fuel consumption per hour (typical)	1,500 pph	843 l/h

#### Typical Mission Capability

Productivity — water dropped per hour (six nautical miles (11 km) water to fire)	14,300 U.S. gal	54,150 l
Total scooping distance (including obstacle clearances)	4,400 ft	1,341 m
Scooping time (to refill tanks)		12 seconds
Typical time on fire		3 hours

## Dimensions

### External

Length	65 ft 0.2 in	19.87 m
Wingspan	93 ft 11 in	28.61 m
Wing area	1,080 ft <sup>2</sup>	100 m <sup>2</sup>
Height	29 ft 9 in	9.11 m

## Dimensions (cont'd)

### Internal

Cabin length (excluding cockpit)	30 ft 10 in	9.4 m
Cabin maximum width	7 ft 10 in	2.4 m
Cabin height	6 ft 3 in	1.9 m
Floor area (excluding cockpit)	212 ft <sup>2</sup>	19.7 m <sup>2</sup>
Total volume (excluding cockpit)	1,257 ft <sup>3</sup>	35.6 m <sup>3</sup>

### Loads

Fuel capacity	1,530 U.S. gal	5,796 litres
Integral water tank capacity	1,621 U.S. gal	6,137 litres

### Doors (W x H)

Forward	40 in x 54 in	1.02 m x 1.37 m
Aft Cargo (normal)	44 in x 40 in	1.12 m x 1.02 m
Enlarged Cargo Door	44 in x 58 in	1.12 m x 1.47 m
Emergency	20 in x 36 in	0.5 m x 0.9 m

### Weights

Maximum ramp weight (land)	44,000 lb	19,958 kg
Maximum takeoff weight (land)		
Disposable load	43,850 lb	19,890 kg
Non-disposable load	41,000 lb	18,597 kg
Maximum landing weight	37,000 lb	16,783 kg
Maximum zero fuel weight	43,000 lb	19,505 kg
Operating weight empty	28,400 lb	12,882 kg
Maximum lift-off weight after scooping	47,000 lb	21,319 kg
Maximum payload	13,500 lb	6,124 kg

(1) Subject to conditions.