

BOMBARDIER

BACKGROUNDER

AMPHIBIOUS AIRCRAFT TECHNICAL COMPARISON

On first inspection, Bombardier's three amphibious aircraft (Bombardier 415^{*}, CL-215T^{*}, CL-215^{*}) appear very similar but, in fact, there are significant internal and operational differences, which distinguish them. The new Bombardier 415, latest in the series, is a modern, efficient and productive firefighter. It features:

- Pratt & Whitney Canada PW123AF turboprop engines
- Wing end plates and finlets
- Fully powered flight controls
- New electrical system
- Pressure refueling
- New cockpit including an electronic flight instrumentation system (EFIS)
- Increased water tank capacity
- Four-door water drop system
- Increased operating weights

Technical comparisons:

	Bombardier 415	CL-215T	CL-215
Max. speed	359 km/h 224 mph	365 km/h 227 mph	304 km/h 190 mph
Rate of climb after scooping	6.6 m/sec 1,300 ft/min	7.0 m/sec 1,375 ft/min	5.1 m/sec 1,000 ft/min
Water drop pattern (salvo) @ 2 U.S. gal./100 sq. ft (1 litre/sq. m)	107 m 350 ft	90 m 300 ft	90 m 300 ft
Productivity in 2.5 hours firefighting [@ 10nm (18.5 km) water to fire distance]	91,000 litres 24,050 gal	80,300 litres 21,200 gal	65,400 litres 17,300 gal

Descriptions:

Bombardier 415:

New production turboprop amphibian with PW123AF engines plus significant modernization and upgrading. To date, 71 Bombardier 415 amphibious aircraft have been ordered by government agencies in France, Canada, Italy, Croatia and Greece. Deliveries commenced in November 1994.

Bombardier 415MP:

To date, 4 Bombardier 415MP amphibious aircraft have been ordered. The first two Bombardier 415MP aircraft were delivered in 2004 to Greece. In June 2008, the Malaysian Maritime Enforcement Agency ordered two Bombardier 415MP aircraft.

CL-215T: A CL-215 aircraft retrofitted with PW123AF turboprop engines using kit modifications and added improvements. Seventeen aircraft have been converted and new conversion kits are being offered.

CL-215: Piston-engined (R-2800) firefighting amphibian. 125 manufactured. Final aircraft delivered May 1990.

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01/09

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