



The Simplex Model 870 Big Dipper Bucket is designed for use fighting fires from the air. It can be attached to the cargo hook of any helicopter rated for carrying its gross weight when filled. When empty and with the Top Ring removed, the bucket can be partially collapsed to ease handling and permit transport inside helicopters and other vehicles.

At maximum capacity, the Model 870 Big Dipper Bucket carries just over 650 Gallons of water. With the three load-varying plugs in the bucket shell removed, capacity is reduced to 537 Gallons.

Table 1: Simplex Model 870 General Specifications:

Volume	US	Metric
Main Bucket Reservoir (Maximum Capacity)	663 gal	2500 L
Main Bucket Reservoir (Load-Varying Plugs Removed)	537 gal	2033 L
Foam Reservoir	30 gal	114 L
Weight	US	Metric
Empty Weight of Model 870 System	684 lbs	310 kg
Filled Liquid Weight (Water, max capacity)	5533 lbs	2510 kg
Filled Liquid Weight (Water, Load-Varying Plugs Removed)	4481 lbs	2033 kg
Filled Liquid Weight (Foam)	258 lbs	117 kg
Gross Filled System Weight	6475 lbs	2937 kg
Electrical System	Current	Voltage
Hydraulic Pump	17 Amp	28 V
Foam Pump	7 Amp	28 V
Control	1 Amp	28 V
Total System	25 Amp	28 V
Bucket Dimensions	US	Metric
Top Outside Diameter (Bucket)	63.6 in	161.5 cm
Bottom Outside Diameter (Bucket)	57 in	144.8 cm
Bucket Height (With Bottom Frame)	60 in	152.4 cm

