Mk 13 Mod 4 Weight Data

Existin capability .............. Any mix of Standard-1 (MR), HARPOON and Standard-1 (MR) Block VI Standard-2 (MR)

Reaction time (SM1) .............. 7.35 seconds
Continuous salvo rate (SM1) ....... 8.09 seconds

Ready service complement .......... 40 missiles

Sprinkling System (Water) ......... 1.476.3 liters/min (390 gal/min)

System Weight (No fluid) ......... 61,102 kg (134,704 lb)

Personnel Requirements
Tactical operation .................. 1
Srikedown operation ................. 8

Mk 22 Mod 0 Weight Data

Existin capability .............. Any mix of Standard-1 (MR) and Standard-1A (MR)

Reaction time (SM1) .............. 8.44 seconds
Continuous salvo rate (SM1) ....... 7 weapons/minute

Ready service complement .......... 16 missiles

Sprinkling System (Water) ......... 605.6 liters/min (160 gal/min)

System Weight (No weapons or fluid) ......... 41,905 kg (92,385 lb)

Personnel Requirements
Tactical operation .................. 2
Srikedown operation ................. 5

Mk 13 and Mk 22 Common Specifications

Weapon Data

Physical growth capability:

Weight .................................. 680 kg (1,500 lb)
Diameter ................................ 34.3 cm (13.5 in.)
Length .................................. 4.73 m (186.0 in.)

Mistfire removal ...................... Jettison

Scheduled Maintenance ............. 2.5 hours maximum/day

Operability Tests .................... 26 minutes/day

Fire Control Interface ............. Mk 74 Guided Missile Fire Control System

Signal Input ......................... Continuous function from fire control to 1X and 36X synches

Power Requirements from Ship Supply

440 Vac 60 Hz 3 phase .............. Standby load 20.6 kW
Average continuous firing load 45.0 kW
Peak running load 164.0 kW

440 Vac 400 Hz 3 phase .......... Weapon warmup power 4.5 kW available
115 Vac 400 Hz 1 phase .......... Synchro transmitter power 1.0 kW

Train and Elevation Data

Preset limits (regulator control mechanical limit-stops)

Train

None

Elevation

-15 deg, +95 deg

Velocity (minimum) .............. 88.5 deg/sec
Acceleration ......................... 132 deg/sec²

Operating Environment for Unaffected Operation

Temperatures:

Minimum .............. -29 °C (-20 °F) with 40-knot wind
Maximum .................. 43 °C (110 °F)

Ship Application ................. Frigates and larger vessels

Service Connections

Water injection system ............. 14.06 kg/cm² (200 psig) freshwater charge

at standby with saltwater firemain backup of 681.3 liters/min (180 gal/min) at 4.92 kg/cm² (70 psig)

Strikedown and portable .......... 1.27 cu meters/cycle (45 ft/cycle)

at 66.08 liters/second (140 cu ft/minute)

Anti-icing system (dry steam) ........ 154.22 kg/hr (340 lb/hr)
at 1.76 kg/cm² (25 psi) absolute

Carbon dioxide system ............. Four 22.68° kg (50 lb) cylinders

Air conditioning system .......... Four 2.88° kg/hr (6 lb/hr)
between 0.5°C (40 °F) to 11.2°C (52 °F)

Nitrogen system .................... Four 22.68° kg (50 lb) cylinders

Each cylinder contains 0.042 cu meters (1.49 cu feet) charged at 13,410.56 kPa (1,800 psig)

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