

F 827 Karel Doorman - 1991

Netherlands

Type: FFG - Guided Missile Frigate

Max Speed: 30 kt

Commissioned: 1991

Length: 122.3 m

Beam: 14.4 m

Draft: 4.3 m

Crew: 154

Displacement: 2800 t

Displacement Full: 3320 t

Propulsion: 2x Stork-Wärtsilä 12 SWD 280

V-12 Cruise Diesels, 2x Rolls-Royce Spey

RM-1A Gas Turbines, CODOG



Sensors / EW:

- Telegon 4 - (AK 1200) ESM, HF/DF, Max range: 926 km
- SMART-S - (AK 1200) Radar, Radar, Air & Surface Search, 3D Medium-Range, Max range: 148.2 km
- LW.08 - (RAWL-2, LAR-2, Type 1022, SPQ-502) Radar, Radar, Air Search, 2D Long-Range, Max range: 333.4 km
- ZW.06 - (1972, PIN 515) Radar, Radar, Surface Search & Navigation, Max range: 46.3 km
- PHS-36 - (1972, PIN 515) Hull Sonar, Active/Passive, Hull Sonar, Active/Passive Search & Track, Max range: 7.4 km
- Sphinx - (1972, PIN 515) ESM, ELINT, Max range: 926 km
- DSBV 62C - (Anaconda) TASS, Passive-Only Towed Array Sonar System, TASS, Passive-Only Towed Array Sonar System, Max range: 74.1 km
- STIR 180 [Radar] - (Sea Sparrow) Radar, Radar, FCR, Surface-to-Air & Surface-to-Surface, Short-Range, Max range: 59.3 km
- STIR 180 [IR Camera] - (Sea Sparrow) Infrared, Infrared, Target Tracking and Identification Camera, Max range: 185.2 km
- STIR 180 [TV Camera] - (Sea Sparrow) Visual, Visual, Target Tracking and Identification TV Camera, Max range: 185.2 km
- N/SLQ-2 Scimitar [RWR] - (RAMSES) ESM, RWR, Radar Warning Receiver, Max range: 222.2 km
- N/SLQ-2 Scimitar [ECM] - (RAMSES) ECM, OECM & DECM, Offensive & Defensive ECM, Max range: 0 km

Weapons / Loadouts:

- 20mm/70 Oerlikon Mk7 Burst [20 rnds] - Gun. Air Max: 1.5 km. Surface Max: 1.9 km. Land Max: 1.9 km.
- 30mm Goalkeeper Burst [240 rnds] - Gun. Air Max: 1.9 km. Surface Max: 2.8 km.
- Mk182 SRBOC Chaff [Seduction] - (1979) Decoy (Expendable). Surface Max: 1.9 km.
- Mk186 TORCH Flare [Seduction] - (1979) Decoy (Expendable). Surface Max: 1.9 km.
- RGM-84D Harpoon IC - (1986) Guided Weapon. Surface Max: 138.9 km.
- RIM-7M Sea Sparrow - (1985) Guided Weapon. Air Max: 25.9 km. Surface Max: 25.9 km.
- AN/SLQ-25 Nixie - Decoy (Towed). Surface Max: 1.9 km.

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- Mk46 NEARTIP Mod 5 - (1984) Torpedo. Subsurface Max: 7.4 km.
- 76mm/62 Mk100 HE Burst [4 rnds] - Gun. Air Max: 2.8 km. Surface Max: 11.1 km. Land Max: 11.1 km.

RNINavy Karel Doorman Class Frigattes (8) served between 1991 - 2010. This class was called M-Class (M for Multi Purpose) and were designed for escort work and ASW duty in the North Sea and Atlantic.

Experiences from the Falklands War resulted in a less angular design to lessen radar reflection.

After the end of the Cold War, the Dutch Navy focusses more on expeditionary work, fighting piracy and inshore work.

The M-Class ships are too big, complex and have a relatively big crew.

For that reason they were replaced by simpler, cheaper and less crew heavy patrol ships (Holland Class) and frigattes of the Zeven Provinciën Class.

Two ships were sold to Belgium, two to Chili and two to Portugal.