

Neptune Engine Room Simulator

Sulzer RTA Container L11-III



Model Description

The Sulzer 12RTA84 Container L11-III simulates a large container vessel with a Sulzer slow speed turbo charged diesel engine as propulsion unit modelled with fixed and controllable propeller. The model is based on real engine data that make the dynamic behaviour of the simulator close to real engine response.

The electrical power plant includes four (4) diesel generators and one emergency generator.

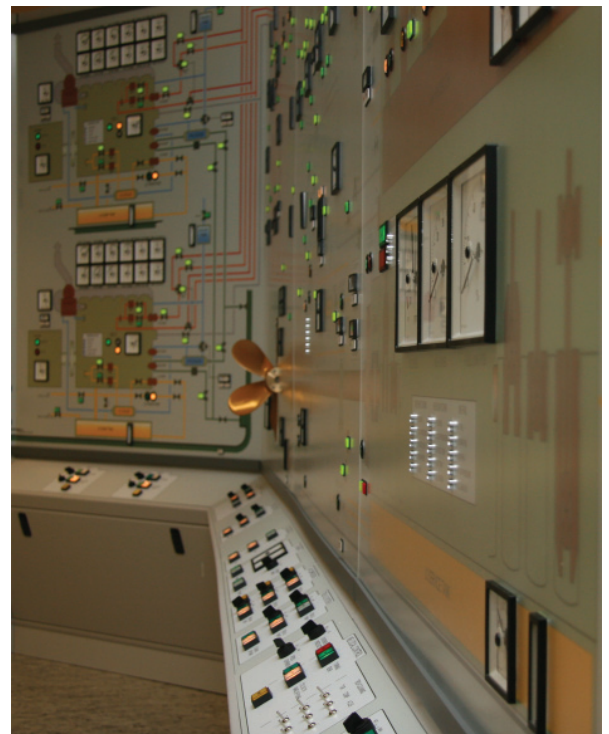
The steam plant includes an oil fired boiler and exhaust boiler.

Control room operator station and panels and bridge and steering panels are included.



Main Engine Data

Type	Sulzer RTA 84C
Cylinder bore.	84cm
Piston stroke	240cm
No. of cylinders	12
No. of air coolers	3
No. of turbochargers	3
MCR	48600kW
Corresp. Eng. speed	102 rpm
Mean indicated press.	17.9 bar
Scavenge air press.	2.4 bar
Turbocharger speed	9500 rpm
No. of propeller blades	5
Propeller pitch	0.9 P/D
Spec. fuel consumption	171 g/kwh
Fuel	730 cSt (50degC)



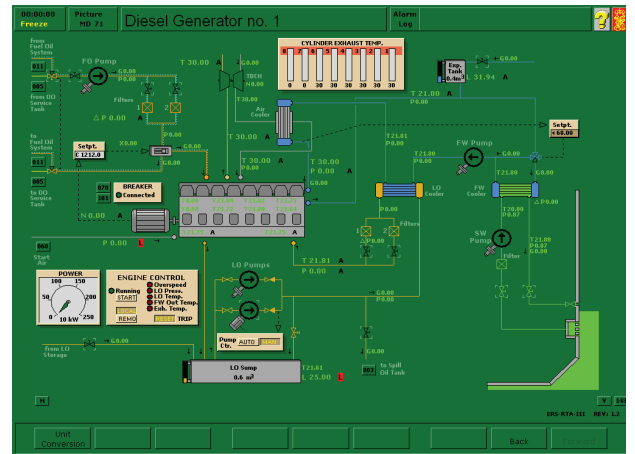
Vessel's Main Particulars

Length overall	295.00 m
Breadth moulded	32.00 m
TEU	4200
Draught	12.6 m
Deadweight	55000 tons
Speed	25 knots

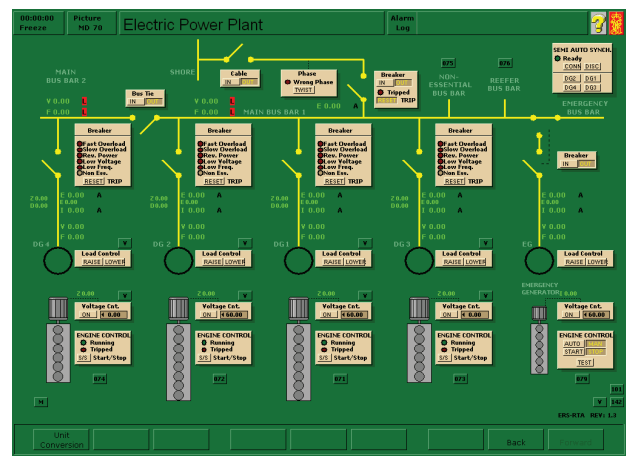
Model main specifications

The following dynamic models and features are included:

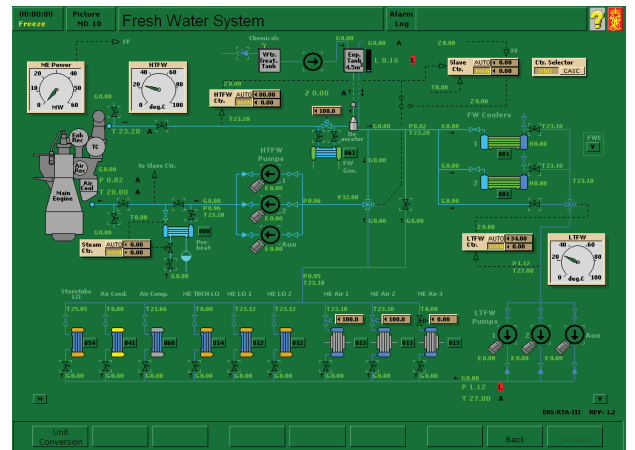
- Sea & LT/HT fresh water systems including FW generator
- Electrical power plant including diesel-, shaft- and turbo generators
- Start & service air compressors including compressor intermediate coolers and emergency compressor
- Electrical power and pump management - Manual and automatic
- Battery charging system
- Steam plant including oil fired boiler and exhaust boiler
- Diesel/heavy fuel oil systems including tanks, separators, viscosimeters
- Lubricating oil systems including separator
- Stern tube systems
- Propeller servo LO system
- CPP bow thruster
- Steering gear/autopilot including double acting IMO type steering gear and ship course control
- Turbo charger systems
- Main engine control system including bridge, ECR and local control
- Main engine control air system
- FO high pressure system including VIT, fuel leak detector and fuel distributor priming valves
- Cylinder indication diagrams
- Piston ring monitoring
- ME bearing system
- Air ventilation system
- Bilge wells & bilge separator
- Air conditioning plant
- Sewage treatment plant
- Incinerator plant
- Cathodic protection system
- Marine growth protection system
- Reefer containers
- Ballast system
- Refrigeration systems
- Ship loading system
- CO2 scavenging air box fire extinguish system



Picture MD71 Diesel Generator no. 1



Picture MD70 Electric Power Plant



Picture MD10 Fresh Water Generator



STCW95 sets performance standards for simulators used for training and assessment of competence. Any simulator need to meet the STCW A-I/12



The model received DNV Statement of compliance based on Standard for Certification of Maritime Simulators No. 2.14 October 2007.

Kongsberg Maritime AS

Bekkajordet 8A, POB 1009 N-3194 Horten, Norway
Telephone +47 33 03 20 00 Telefax +47 85 02 80 28

www.km.kongsberg.com



KONGSBERG