The K-Sim Engine Sulzer 12RTA84 Container L11-III model 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.

**Training objectives**

The K-Sim Engine Sulzer 12RTA84 Container L11-III model is designed to be a valuable tool in the basic and advanced training of marine engineers. The training objectives are to train junior engineers in basic engine room operations, senior engineers in emergency operations and trouble shooting, and to train senior and chief engineers in optimal operation, fuel economy and energy conservation. This is achieved by controlled training, leading to better understanding of the total plant operation, as a result of realistic simulation of a real engine room.

**Compliant with industry requirements**

Kongsberg Digital simulator models exceed requirements in the STCW convention, Regulation 1/12 and fulfill DNV GL's standard DNVGL-ST-0033 for Maritime Simulator Systems.
MODEL MAIN SPECIFICATIONS

High fidelity engine room systems include:

- Sea & LT/HT fresh water systems Incl. FW generator
- Electrical power plant Incl. diesel generators
- Start & service air compressors Incl. compressor intermediate coolers and emergency compressor
- Electrical power and pump management Manual and automatic
- Battery charging system
- Steam plant Incl. oil fired boiler and exhaust boiler
- Diesel/heavy fuel oil systems Incl. tanks, separators, viscometers
- Lubricating oil systems Incl. separator
- Stern tube systems
- Propeller servo LO system
- CPP bow thruster
- Steering gear/autopilot Incl. double acting IMO type steering gear and ship course control
- Turbocharger systems
- Main engine control system. Incl. bridge, ECR and local control
- Main engine control air system
- FO high pressure system Incl. 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 and refrigeration systems
- Sewage treatment plant and Incinerator plant
- Cathodic protection system and marine growth protection system
- Reefer containers and ballast system
- Ship loading system
- CO2 scavenging air box fire extinguish system

Note: Specifications subject to change without any further notice.