M / S Royal Evolution
Brief Technical Specification

MODEL	**: Live Aboard - Mono hull**
VESSEL TYPE	**: Passenger Ship**
CONSTRUCTION	**: Marine Grade Steel (Hull & Superstructure)**
CLASSIFICATION SOCIETY	**: Bureau Veritas - Full Survey (Hull, Machinery, Load Line, Intact & Damage stabilities)**
REGISTRATION & FLAG STATE	**: Egyptian**
GOVERNMENTAL APPROVED	**: Egyptian Maritime Department**

DIMENSIONS :

Length Overall	**39.00 m**
Length on Waterline	**35.60 m**
Beam on Waterline	**8.20 m**
Beam (Molded)	**8.60 m**
Hull Depth	**3.60 m**
Hull Draught	**1.90 m**

TOTAL DISPLACEMENT	**: 280 Tonnes**	
REGISTER GROSS TONNAGE	**: 476 Tonnes**	
MACHINERY	**: Engines**	**2 X CUMMINS KTA 38 – M1**
	Maximum rating	**1100hp@1800 rpm +/- 2%**
		Heavy Duty Operation
	Gearbox	**Twin Disc MG 6619 A**
	Ratio	**2.54:1**
	Propulsion	**TEIGNBRIDGE Propellers Ltd.**
		2 X 5 Bladed Propellers
	Diameter	**110 mm**
	Auxiliary	**2 X ONAN MDGDB**
		75Kw@1500rpm
		3 ph. 220/380V 50Hz
		1 X ONAN MCGCA
		35Kw@1500rpm
		3 ph. 220/380V 50H
PERFORMANCE	**: Maximum Speed**	**14 Knots @ 1800 rpm**
	Cruising Speed (Continuous)	**12 Knots @ 1600 rpm**
RANGE	**: 2000 Nautical Miles**	
	(At cruising speed using 90% of total tankage and including auxiliary).	
TANKAGE	**: Diesel Fuel**	**2 X 9 500 liters**
		2 X 7 500 liters
		2 X 6 500 liters
	Fresh Water (S.Steel)	**2 X 7 000 liters**
		2 X 4 000 liters
	Black & Grey water	**2 X 5 500 liters**
	Lube Oil	**1 X 400 liters**
	Ballast (Fresh Water)	**2 X 7 000 liters**

PASSENGERS : **24 Persons total**

CREW : **17 Persons total**

MARINE REGULATIONS : **The vessel meets the following statutory regulations:**

- **International Load Line Convention certificate**

MARINE PERMIT TO OPERATE : **The vessel is licensed as passenger ship for Coastal Operation (600 nautical miles from refuge)**

APPOINTMENTS : **Guests Accomodation**

8 double/twin cabins containing:
(3.6m X 4m = 14.40m2 including ensuite)

- **Twin beds (Two separate beds)**
- **1 X desk & chair**
- **2 X locker & drawer unit**
- **Bar fridge**
- **Fully Air Conditioning with individual thermostat control**
- **1 X 34cm TV & DVD player entertainment system in each cabin**
- **Marine Satelite receiver**
- **Sound system with volume control**
- **1 X Shower/Toilet unit ensuite per cabin with complete amenities, hair dryer & 220V power supply facilities**
- **Safety Box**
- **Smoking detector alarm**
- **Automatic Sprinkler anti-fireflood**

4 double/twin suites containing: (Two cabins of them are disabled friendly)
(3.80m X 4.20m = 15.96m2 including ensuite)

- **1 X Queen size bed**
- **1 X desk & chair**
- **2 X locker & drawer unit**
- **Bar fridge**
- **Fully Air Conditioning with individual thermostat control**
- **1 X 34cm TV & Video player entertainment system in each cabin**
- **Marine Satelite receiver**
- **Sound system with volume control**
- **1 X Shower/Toilet unit ensuite per cabin with complete amenities, hair dryer & 220V power supply facilities**
- **Safety Box**

- **Smoking detector alarm**
- **Automatic Sprinkler anti-fireflood**

Crew Accomodation

1 X SGL Captain cabin
1 X SGL First Mate cabin
1 X SGL Senior crew cabin
1 X DBL Dive Guides cabin
1 X DBL Engineer cabin
1 X DBL Senior crew cabin
1 X 8 Bunks beds
All crewmembers cabins have Air Conditioning, shared by two bathrooms & have their own Lounge equipped with TV/VCR & Dining area.

Dining Facilities

Dining area with tables and chairs for 24 guests
Fully Air Conditioning
Smoking detector alarm
Automatic Sprinkler anti-fireflood

Lounge Facilities

Lounge seating for 24 guests
Bar with fridges
Fully Air Conditioning
Coffee tables
Light table for slides
Sound system (CD player & Tape player) for public areas
1 X 130cm Plasma TV and DVD/VCR connected with home theatre audio system
DVD & CD library
Sea-Tel Marine Satellite receiver
Books & Magazines library
Slide projector with screen
Smoking detector alarm
Automatic Sprinkler anti-fireflood

Video/ CD editing & E6 Photo processing

1 X Lap Top
1 X 34cm television monitor
1 X computer for digital video/CD & DVD editing

Individual charging 110/220V & storing locker for cameras & torches for 24 guests

Laundry

Place is available but not ready yet.

Aft Dive Deck

Scuba & Nitrox filling stations
Booster Pump, Trimix & O2 filling panel for Technical Diving
Individual dive locker for 24 guests & 4 crew members with storage facilities for dive tanks and associated personnel equipment.
1 X Camera station (3 racks) for storage and maintenance of underwater photographic & video equipments, equipped by two air guns for drying.
4 X hand held showers on dive platform.
2 X fresh water rinsing tank for washing dive gear.
2 X S.Steel hanging racks for wetsuits.
1 X hot & cold shower unit.
1 X bathroom unit.

Deck Covering

Aft Dive Deck and Diving platform – Out Door sheet
Shaded Sundeck and side decks – Out Door carpet
Open Sundeck – Out Door carpet

Outdoor Accomodation

6 X Teak wood sun lounges
8 X Teak wood outdoor tables
Outdoor Teak door sofa & chairs
Bar with fridges & four bar chairs
Spa / Jacuzzi
Outdoor music speaker

Galley Equipment (Commercial)

Refrigerators
Cool room/freezer for 14 days trip
Pantry for 14 days trip
Microwave
Commercial Stove/oven/grill
Urn
Commercial quality dbl sink
Commercial deep fryer
Commercial mixer
Exhaust extraction Hood
Outdoor Stainless steel BBQ

Deck and Mooring Equipment

1 X Hydraulic Anchor Windlass
2 X Hydraulic Rope winches (Stern & Aft)
1 X Hydraulic winches for tenders
2 X Avon rib tenders 5.7m
1 X Avon rib tender 4.2m
2 X 55hp Yamaha outboard
1 X 25hp Yamaha outboard

Machinery Spaces

Comprehensive Fire & Smoke detector
CO2 Flooding system with nozzles for all machinery
2 X Fresh water desalinations unit – 5000 liters/day each
3 X Divemix compressor – 250 liters/minute each connected to separate extra air filter
1 X Divemix compressor with Nitrox membrane – 500 liters/minute up to 40% O2
1 X Hot water boiler – 250 liters
1 X Sewage treatment plant for Black & Grey water
2 X Fresh water pumps with two hydrofoil 300 liters each
2 X Salt water pumps for WC with hydrofoil
1 X General service pump
2 X Fire pumps
2 X Bilge pumps
2 X Fuel transfer pumps
1 X Bilge oil water separator
Main switchboard
Electro/Hydraulic rudder
Work table and vice

Life Saving and Safety Equipment

2 X 25persons SOLAS approved life rafts - Class A
8 X SOLAS life buoys
46 X SOLAS approved life jackets with indicator light
Flares, Rockets, Handy Flares
2 SART (Radar transponder)
AIS (Automatic Identification Security)
SSAS (Ship Security Alarm System)
Ship Security Plan
Fire alarm & fire protection
Bilge alarm
25 Fire extinguishers – 6 Kgm
Automatic Sprinkler anti-fireflood in all indoors area
Oxygen with demand valve
First aid kit
Co2 ant fireflood system for engine room
Fire Blankets

Bridge and Navigational Equipment

1 X 62 nautical miles radar
1 X GPS / Plotter
1 X DGPS
1 X Autopilot
1 X Echo Sounder
1 X Electronic Compass
1 X Navtex
1 X Searchlight
Fire Alarm main switchboard
Sound system station
Chart table
Drawer units
Binoculars

Communications
GMDSS for Coastal Operation including Area 1 & Area 2
Satellite Telephone
HF/Single Side Band
VHF with DSC
VHF
3 GMDSS Marine portables VHF for tenders