



IOLAIR



VESSEL SPECIFICATIONS

Name	IOLAIR
Port of Registry	Majuro
Call Signal	V71S9
IMO Number	7816070
Flag	Marshall Islands
Year of Build	1982
Name and Nationality of Owner	IOLAIR OFFSHORE PTE LTD
Class	+1A1 COLUMN-STABILISED OFFSHORE SUPPORT UNIT DYNPOS (AUTR)

DIMENSIONS

Length	102 m
Breadth	51.50 m
Depth	32.30 m
Operating draft	15.25 m
Survival draft	13.00 m
Transit draft	7.50 m
Transit draft speed	10 knots
Operating draft speed, with and 4 knots without cargo	4 knots
Gross tonnage	15,765 UA
Net tonnage	4,746 UA
Fuel tank capacity	2,858 m ³
Drinking water tank capacity	342 m ³

POWER GENERATION

The PSS IOLAIR is equipped with:

- 5 Wärtsilä W7L32 diesel engines, with power of 3.5 MW each
- 1 MAN 18 ASV 25/30 3.4 MW diesel engine
- 1 Emergency motor generator, with a capacity of 250 KW
- 1 Standby emergency motor generator, with a capacity of 800 KW

DP SYSTEM

The PSS IOLAIR has:

- 1 Class 2 dynamic positioning system, manufactured by KONGSBERG, classification K-POS 21
- Reference position systems based on the following 5 different principles: RADIUS (1), DGPS (2), CYSCAN (2), HiPAP (1), TAUT WIRE (1)
- 2 Wind sensors
- 3 Movement reference systems (MRU)

PROPULSION, THRUSTERS, AND POSITIONING STATION

The vessel has:

- 2 Main propellers, Rolls Royce
- 1 Bow starboard side tunnel thruster, Rolls Royce
- 1 Bow port side tunnel thruster, Rolls Royce
- 1 Stern starboard side tunnel thruster, Rolls Royce

NAVIGATION EQUIPMENT

- 2 Gps, Fugro modelo 9205-GNSS
- 3 Gyrocompasses, Sperry Marine Navigat X MK1
- 1 Magnetic compass, Lilley&Gillie
- 1 Echo sound, Skipper modelo GDS101
- 1 AIS, Furuno
- 1 Navtex, Furuno model NX-700
- 1 Radar, S band, Sperry Marine
- 1 Radar, X band, Furuno
- 2 K-Bride Consoles, Kongsberg
- 1 Main GMDSS Station
- 1 Manual command station, Rolls Royce
- 1 VDR, Furuno model VR-3000S
- 1 UHF radio station, ICOM model IC-F621-2

MAIN DECK AREA AND RESISTANCE

- Areas of 5 t/m²; 407 m²
- Areas of 2 t/m²; 403 m²
- Total deck area: 810 m²

CRANES

Liebherr BOS 42200/100 Litronic Main Crane

Maximum cargo

Main hook 100 t
Auxiliary hook 15 t

Working radius

15 radial meters from the center of the crane pedestal
25 radial meters from the center of the crane pedestal

Amclyde-type Unit, Model 20000 Auxiliary Crane

Maximum cargo

Main hook 40 t
Auxiliary hook 15 t

Working radius

12 radial meters from the center of the crane pedestal
25 radial meters from the center of the crane pedestal

ACCOMMODATIONS

The IOLAIR platform can accommodate 350 people in 126 cabins, which are distributed as follows:

- 41 single cabins; 15 double cabins; 1 triple cabin; and 69 quadruple cabins. All cabins are equipped with toilet and shower
- The IOLAIR has a reception area with a waiting room; offices; meeting room; mess room; a room specially designed as a recreation area; movie theatre; gym; changing rooms with lockers for men and women; waiting room for personnel disembarking by sea; doctor's office and hospital with a bathroom and observation or recovery room with 3 beds

AIR CONDITIONING SYSTEM

Integrated air conditioning system with sufficient capacity to comfortably cover the needs of the entire vessel facilities.

HELIPAD

The helipad is 22.2 m in diameter with maximum take-off capacity of 9.3 tons, can receive Sikorsky S61 helicopters.

GANGWAY

Telescopic gangway for personnel transit to/from any facility with maximum operation length of 27 m to 32 m. Manufactured by Marine Aluminum A/S.

BOARDING GANGWAY

Personnel boarding gangway with an operating length of 24.50 meters.

SURFACE DIVING

The vessel has a designated area for surface diving equipment.

FRESH WATER MAKERS

- Freshwater generators: 2 CLARK JW 150 reverse osmosis water treatment plants of 25 m³/day.
- 1 ENWA AB reverse osmosis generator of 25 m³/day. These generators comply with Mexican standard NOM-127-SSA1-1994.
- 3 reverse osmosis MECO MMRO 10000 of 37.8 m³/day.

WASTEWATER TREATMENT SYSTEM

2 Sewage Hamworthy Super Trident ST 15 treatment plants with a capacity of 11 m³/h, according to MARPOL standards 73/78, Exhibit V and VI.

TRASH COMPACTOR

1 ENVIROPAK model 3000 compactor, with a capacity of 60,000 lb. of compacting power. The trash compactor complies with MARPOL standards 73/78, Exhibit V.

FOOD GRINDER

1 Stainless Tuf-Gut Model "E" food grinder for organic food remains with 7.5 hp power. The food grinder complies with MARPOL standards 73/78, Exhibit V.

FIREFIGHTING, BILGES, AND WASHING PUMPS

- 4 Firefighting pumps
- Bilge and flushing centrifugal pumps, Hamworthy type CGB-80V48AAN, 90/75 m³/hr, 35/85 m head

HELIPAD FIRE MONITORS

Fixed AFFF helipad foam system.

FIFI FIRE MONITORS

FIFI I certified firefighting equipment, Stang Industries, Inc., cap. 3400 m³/h.

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LIFE SAVING EQUIPMENT

- 4 Fully enclosed lifeboats for 60 people with outdoor spray system and breathable air supply
- 1 Rescue boat that fits 6 people, Norsafe Merlin 615
- 28 Life rafts for 25 people with davits and hydrostatic releases
- 26 Ocenco EEBD M 20.2 exhaust systems
- 2 BAUER compressors with 330 bars to fill the cylinders of the lifeboats and ERA with air
- 1 Emergency equipment kit for CAA (UK) helicopter
- 1 Firefighting foam equipment for the helipad with two oscillating monitors
- 7 Portable foam equipment
- 1 Fixed CO2 system that covers 20 selected areas that include: machine areas; engine and switch rooms; hydraulic rooms; transformers; standby generator; and mud plant area
- 1 Fire detection system that covers all areas of the vessel. The control and monitoring panel is located in the command bridge and control room
- 12 Life buoys
- 461 Life jackets

MEDICAL EQUIPMENT

- 2 Stretchers
- 5 Neil Robertson stretchers
- 1 Scoop stretcher
- 1 Chairlift
- 1 Pneupac resuscitators
- 1 Pneumac head immobilizer
- 1 Short spinal board
- 2 Emergency oxygen units
- 1 Zoll M Series fixed defibrillator

COMMUNICATIONS

- The vessel is fitted with fixed and portables VHF and UHF equipment, conveniently located at strategic points on board. It also has fixed and portable VHF equipment for helicopter operations located at navigation bridge and with the Helicopter Landing Officer (HLO)
- The vessel has full Global Maritime Distress Signal System (GMDSS) that is ready for navigation on zones A1, A2, and A3
- The Iolair has Skyfile mail satellite systems (mail service only)
- Public announcements and emergencies equipment
- Direct intercom (command bridge/control room/radio room/engine room/high voltage room)
- Talk back system Between emergency stations and several points throughout the vessel with the command bridge
- Intercom. Machine areas
- Sideband systems: Furuno model FS-1575