

Objet :	Specifications for Emergency Hyperbaric Recompression Chamber Rental
Date :	01/06/2026
Rédacteur :	G. PELTIER (DFO/PON)
Destinataires	Tender Market
Copie à :	
Référence :	261000081

1/ CHAMBER SPECIFICATIONS

The hyperbaric recompression chamber must include the following:

- Main chamber with 3 breathing mask systems
- Airlock with 1 breathing mask system
- Air conditioning system (if available) to supply internal heat exchangers within the chamber
- Sufficient stock of high-pressure air storage bottles
- Sufficient stock of medical-grade oxygen bottles
- Minimum of 2 hyperbaric fire extinguishers
- Maximum allowable pressure: 10.0 bar
- Operating pressure: 7 bar
- Internal diameter: 1500 mm (accommodating up to 3 persons)
- Maximum length: 3900 mm (for shipboard integration)
- Maximum weight: 3000 kg (for vessel stability)
- The chamber is for medical use and must comply with all applicable standards and regulations

2/ CHAMBER TRANSPORT

The chamber and its air production unit must be containerized to enable transfer from the storage location, by sea if necessary, to the vessel.

Due to space constraints, the chamber and associated equipment must be removed from the container and placed onboard the RV Antea in Noumea. To facilitate this operation, an open-top container is preferred. Storage of the container ashore for the duration of the mission shall be the responsibility of the contractor.

3/ SCOPE OF WORK

The requirement is subject to the following constraints:

- Geographic Constraints: The chamber must be available at Jules Ferry Berth in Noumea, New Caledonia.

- **Technical Constraints:** The chamber must be capable of integration onboard RV Antea in a confined space exposed to weather conditions. The vessel provides single-phase electrical power supply at 220V (50Hz).
- **Temporal Constraints:** The chamber must be available alongside the vessel no later than 17 August 2026, integrated onboard and operational no later than 19 August 2026. It will be discharged from the vessel no later than 08 September 2026. Preparatory onboard visits will be possible on 15 and 16 August 2026.
- **Transportation and Associated Services:**

The contractor shall be responsible for all transportation and associated costs (customs, insurance, handling) between the storage location and the place of delivery. The lifting equipment used to move the material from the berth onto the vessel, and for discharge, shall not be the responsibility of the contractor.
- **Training and Technical Support:**

Due to limited onboard space, operation of the chamber must be delegated to qualified scientific personnel (already designated). The contractor must therefore include comprehensive training of this personnel to ensure independent and competent operation of the chamber. The contractor shall make best efforts to provide remote technical assistance in the event of equipment malfunction during the mission.
- **Mounting Specifications:**

Due to limited aft deck space and the availability of only a limited number of deck fittings, the chamber mounting feet must be spaced at 1300 ± 15 mm in width and 2550 ± 15 mm in length. If these dimensions cannot be met, the contractor must provide an interface plate adapted to the vessel.