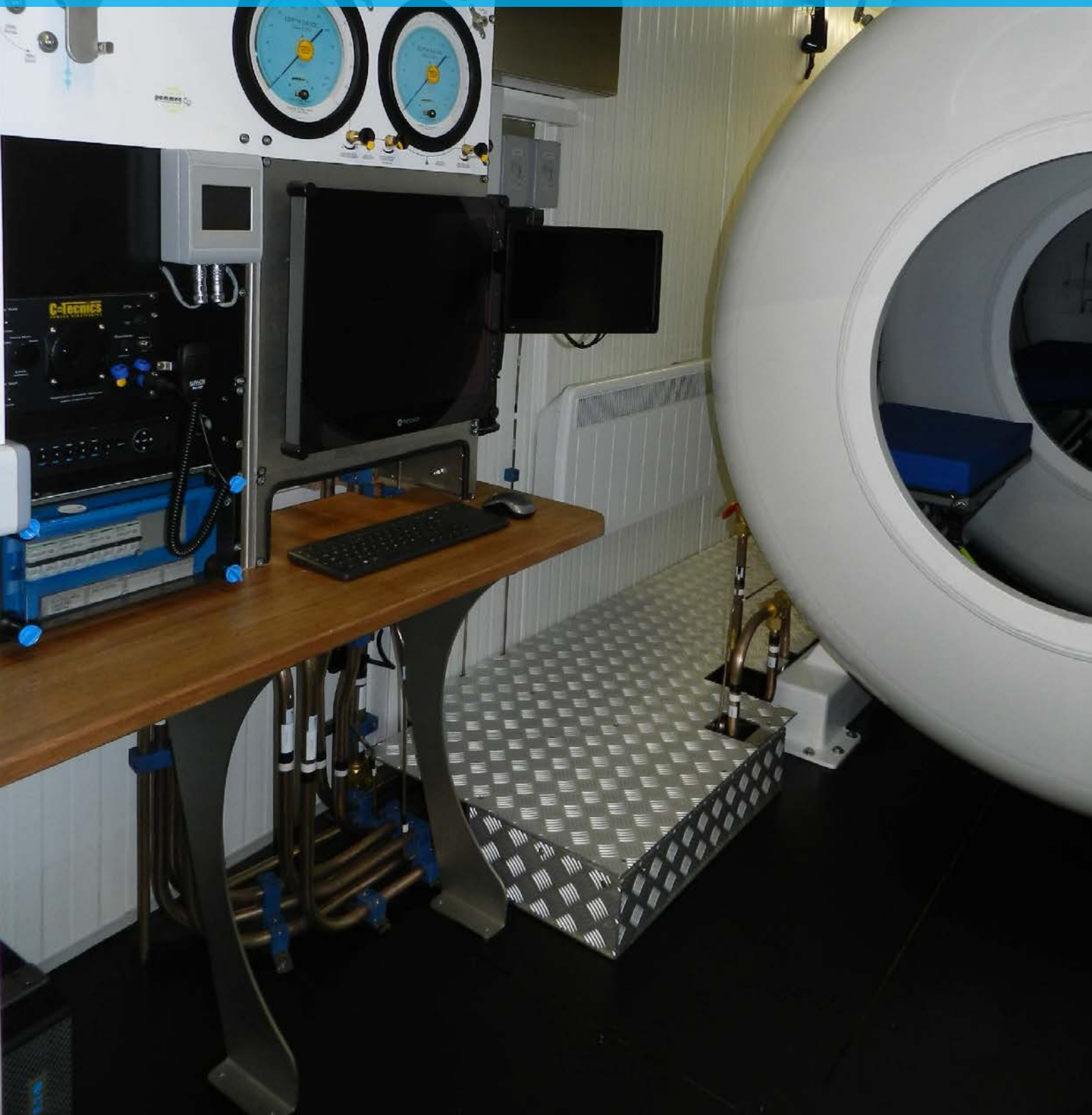
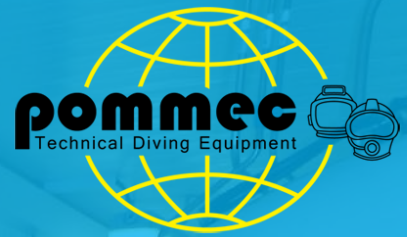


# Containerized 1800 DDC - Tunneling



## 1. Introduction

Thank you for showing interest in Technical Diving Equipment POMMEC BV Located in Bergen op Zoom, the Netherlands near the Belgium border.

POMMEC is a leading European manufacturer and worldwide supplier of commercial diving equipment. We provide a wide range of products, from consumables like cutting electrodes to entire Dive-Spreads.

Manufacturing standard and custom built dive systems combined with our long experience as distributor for all the leading brands in the industry gives us the possibilities to help our client with all their needs to bring the job to an end successfully and safely.

Apart from our full product range, comprising tools and personal diving gear and we are specialized in building Launch and Recovering Systems, stand alone and containerized dive systems and deck decompression chambers. All manufactured at our own premises in the Netherlands to keep control of quality and traceability.

Customers all have their own specific demands, but we also ensure that our systems follow all international safety requirements. In addition, we always make sure that our products evolve. This is done by using the latest technologies, making logical design choices and listening to our customers' needs. Always with our motto in mind: care for detail.

Our clients are professional diving companies situated all over the world. You may encounter our equipment and installations in Vietnam, Mexico, the UK, South Korea and many other places. In all these locations, diving professionals need high quality equipment that is reliable and designed to meet all kind of offshore, marine and underwater situations.

Clients come to us for standard consumables and commercial diving equipment. But also when they need a specific, custom-made system, like Launch and Recovery systems or a containerized decompression chamber. Pommec advises on all necessary requirements. We handle quality control, technology, electrics, hydraulics, welding and logistics.

We're proud to be able to offer the entire package from design to production. By working closely together as a team, we can guarantee that customers get what they want and get it in time.

Pommec stays competitive and leading, both nationally and internationally by producing systems made of high quality products. We realize fast delivery times worldwide, we provide support on location and we continuously improve our production facilities and our products. In the end, POMMEC's complete range of services is best described by just three words:

**care for detail.**

### DIAM. 1800 DECOMPRESSION CHAMBER IN 20FT CONTAINER

#### Features;

- 20ft standard ISO container
- DC1800 decompression chamber
- Separate Control desk
- Electricity system

#### Guidance Codes and Standards

- IMCA D023: DESIGN for Surface Orientated (Air) Diving Systems
- EN13445 - Unfired Pressure Vessels: European rules for the design, fabrication, and inspection of pressure vessels

#### 20ft standard ISO container

Modified with mechanical cutouts, personnel accessdoor, gas and electricity penetration plates.

- Marine grade coating outside in customer colours
- Personnel door 90 cm wide, with integrated window in longside container
- Fully insulated with 4cm thick special insulation panels on walls and ceiling
- Stainless steel covers to protect cutouts in container walls
- Two fire extinguishers in a dedicated cabinet





### Double Lock DDC1800mm with a working pressure of 5 Bar

#### General;

- 3 Viewports
- Doors (round diam approx. 800mm),
- CE Declaration of Conformity
- 5 Bar working pressure
- Air & Oxygen distribution panel mounted on the outside
- Pressure/depth monitoring gauges, 0.25% acc.
- Oxygen content analyser point in supply line Communication;
- C-Tecnicos double lock chamber communication system connected to the UPS
- Bullhorn 2 way communicator in main & entry lock
- Sound powered telephones as backup communication system
- Recording system & blackbox for backup



### Instrumentation;

- Camera in both entry & main lock
- Caisson gauge in both entry & main lock
- Thermometer in both entry & main lock
- Clock in both entry & main lock



### Main Lock

- 1x Folding bench with backrest
- 2x Folding seats with backrest
- Seats, bench & backs with removable and cleanable cushions
- 4+1 persons gas distribution panel
- 5x Delta BIBS mask, one size fits all
- Internal principle LED light
- Gas exhaust
- Drain system
- System to equilibre both the locks
- Portable fire extinguisher
- Mist spray sprinklers
- 1x Heating in main lock DDC



### Entry Lock

- 2x Folding seats with backrest
- Seats & backs with removable and cleanable cushions
- 1+1 persons gas distribution panel
- 2x Delta BIBS mask, one size fits all
- Internal principle LED light
- Gas exhaust
- Drain system
- Portable fire extinguisher
- Mist spray sprinklers





### Monitoring

The chamber will be equipped with a (CDRS) Chamber Data Recording System monitoring & logging the following for both locks;

- Pressure
- Oxygen and CO2 level
- The CDRS will come complete with software, computer & mouse + keyboard
- Pommec DDC air control panel
  - \* 2 Independent LP air supply inlets, 1 main and 1 backup
  - \* HP High flow Regulated Supplies with HP selection
  - \* 1 Gas mix selector valve for 2 incoming lines:
    - 1x Oxygen
    - 1x Mix
  - \* Safety valves on the air supply lines and on the pneumo gauges
  - \* 2 pneumometers (depthgauges), Ø 200mm, 0 - 70 MSW, scale 0,5 msw intervals, accuracy Class 0.25%
  - \* 2 Flowmeters for gas Analysing Points
  - \* 2 Gas Analysing Points
  - \* Temperature & Humidity in both entry & main lock
- Monitor to check the camera features inside the chamber





### Fire Safety System

- 600 ltr water tank
- Gas pressurizing tanks
- Sprinklers inside both locks
- Portable hyperbaric extinguishers in both locks

### Operator desk with video

- Desk with stainless steel housing for monitor
- Monitor
- DDC camera system
- Breathing set with cylinder for operator in case of emergency
- Ambient oxygen analyser



### Electricity System

- 240V AC single-phase system taken of the 400V for light and electrical sockets
- 3x container Light
- Split unit Air conditioning with 1 unit inside
- 1 Heater in the container
- Emergency light
- Uninterrupted power supply for electricity back up for communication and monitoring



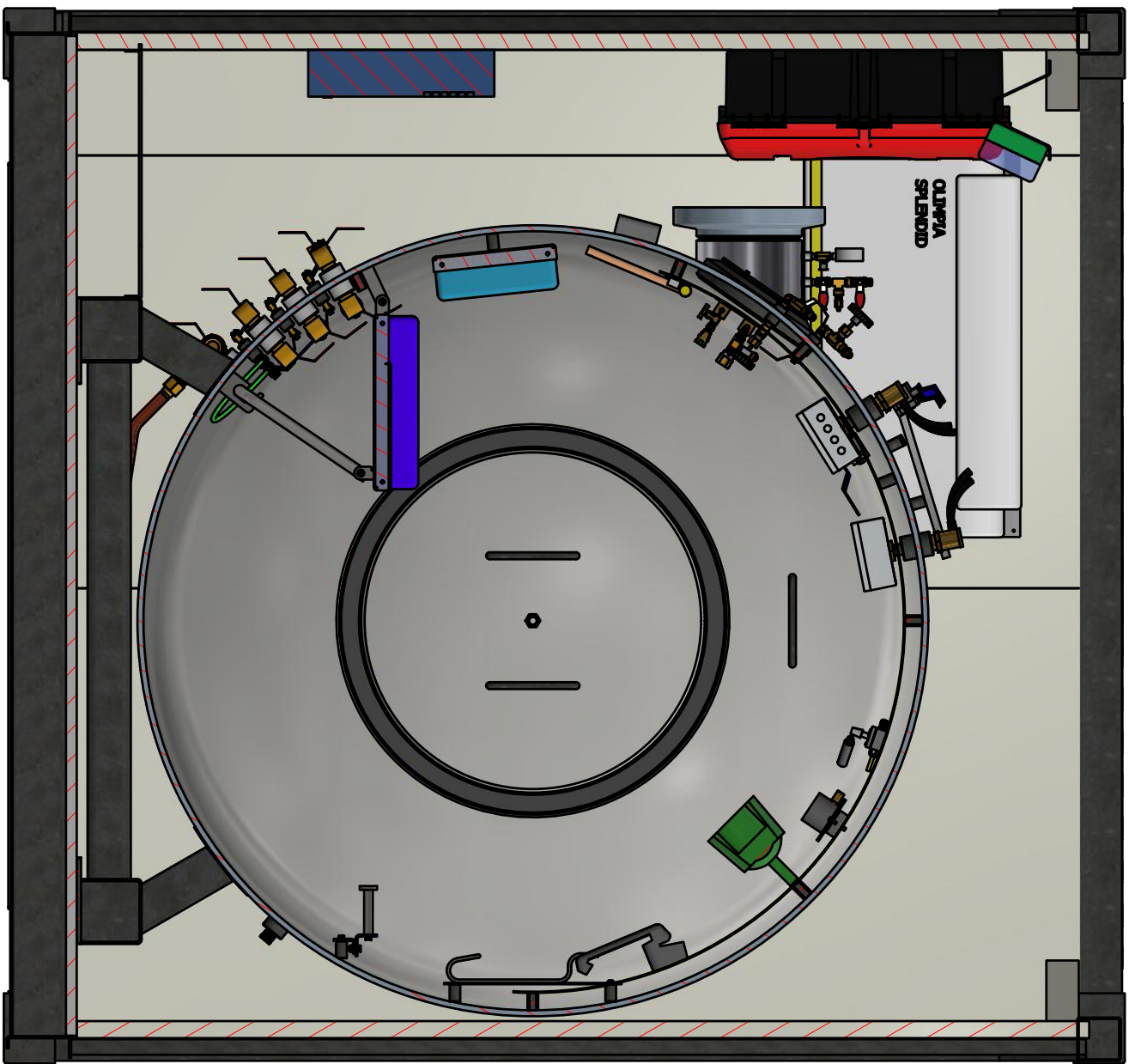
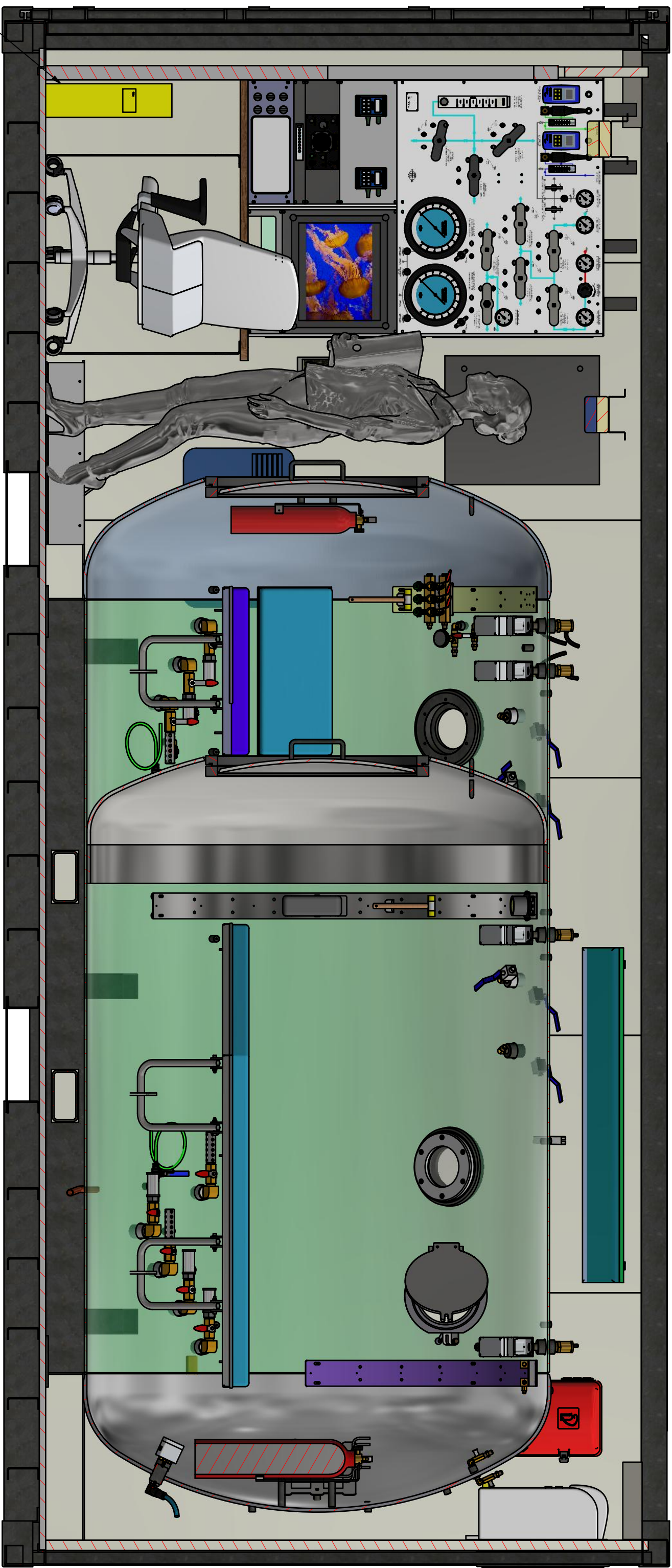
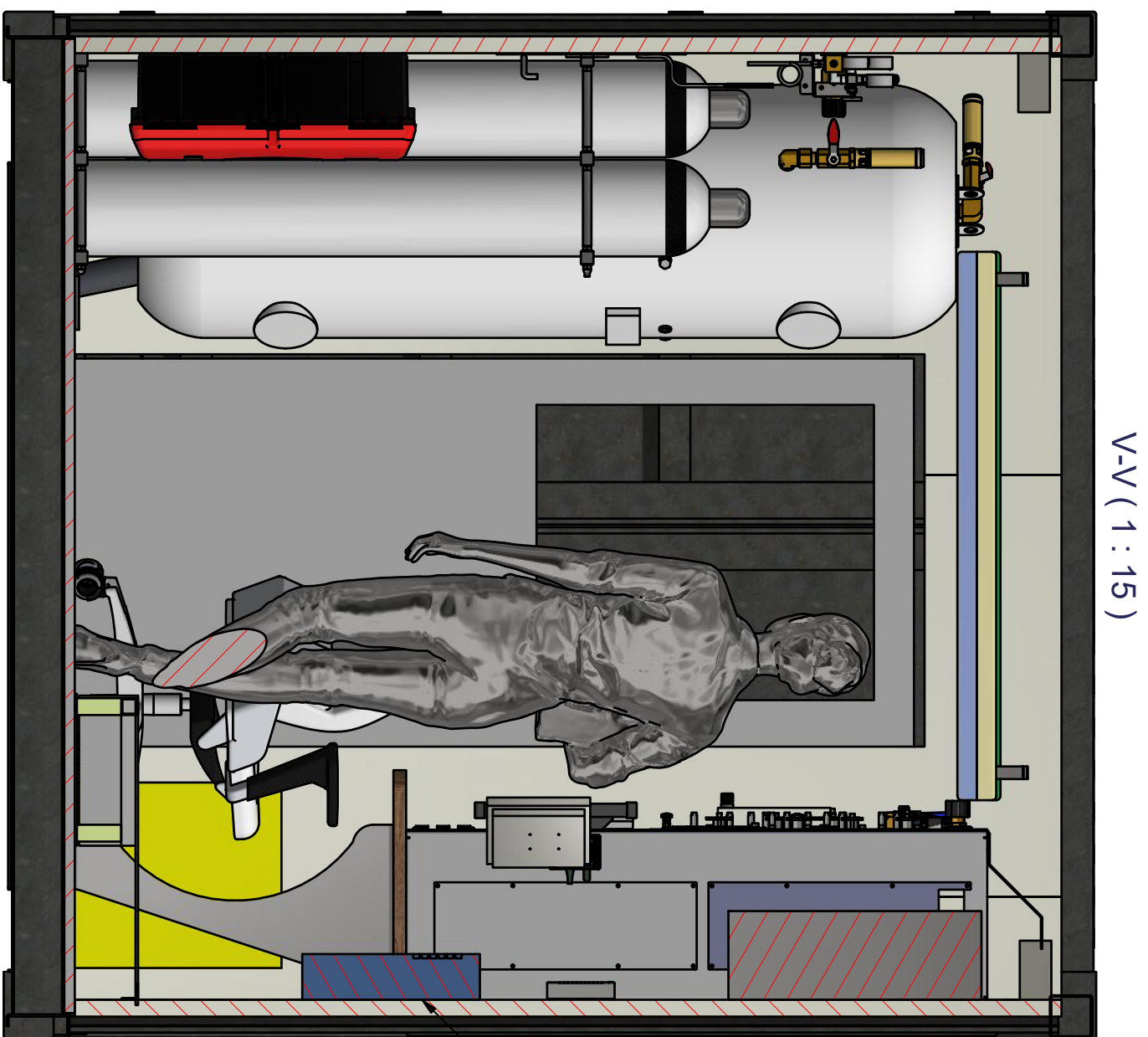
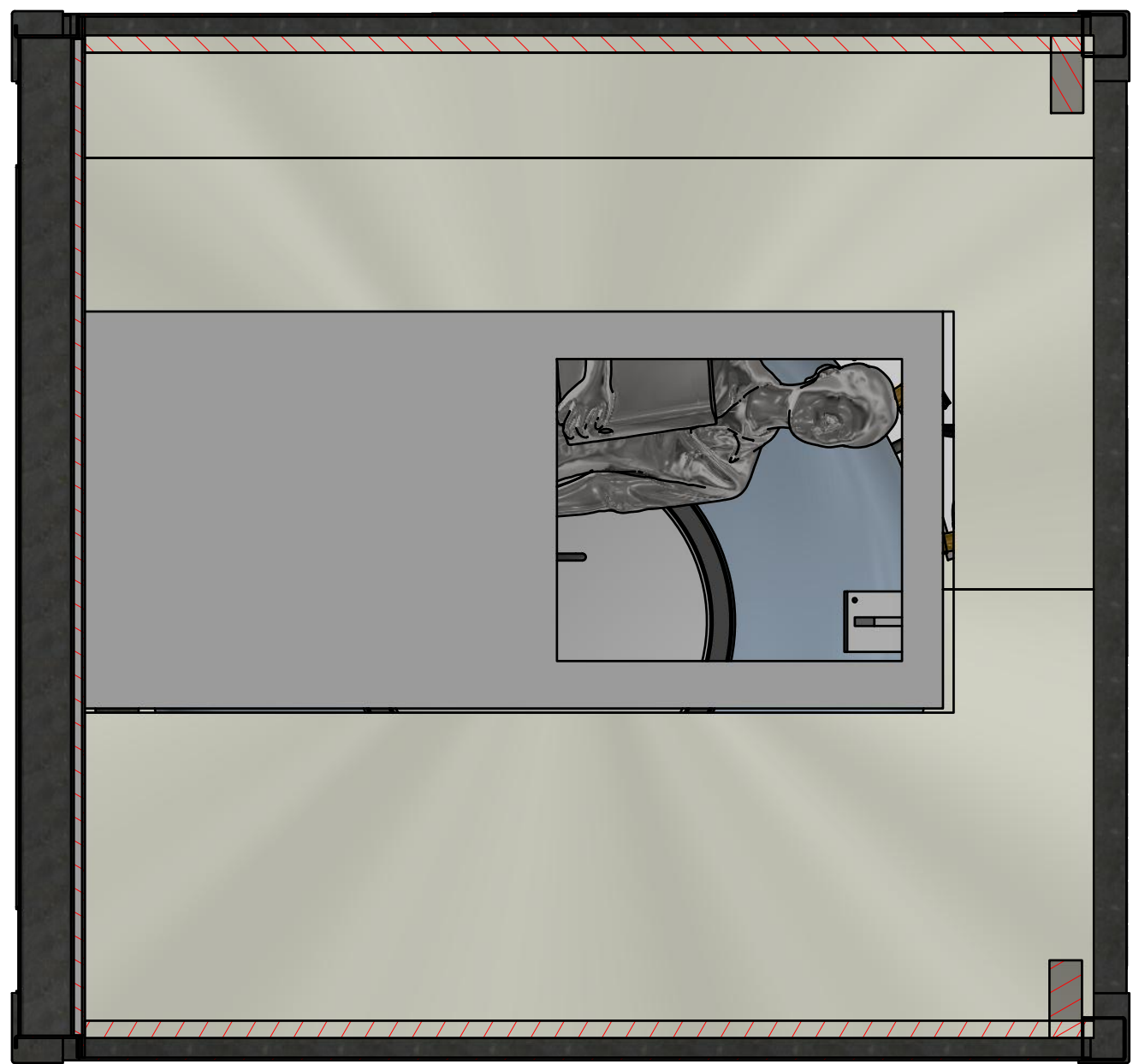
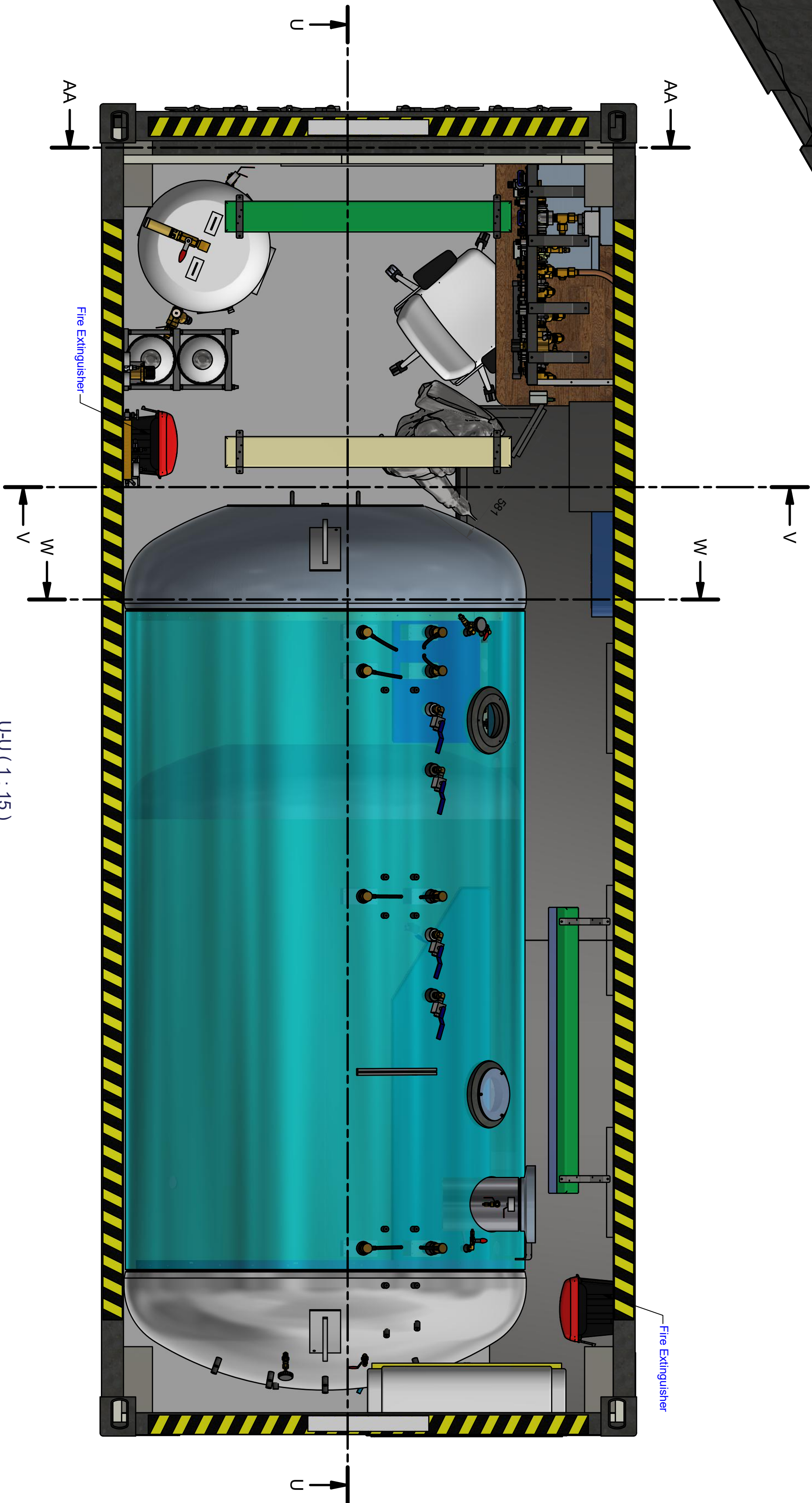
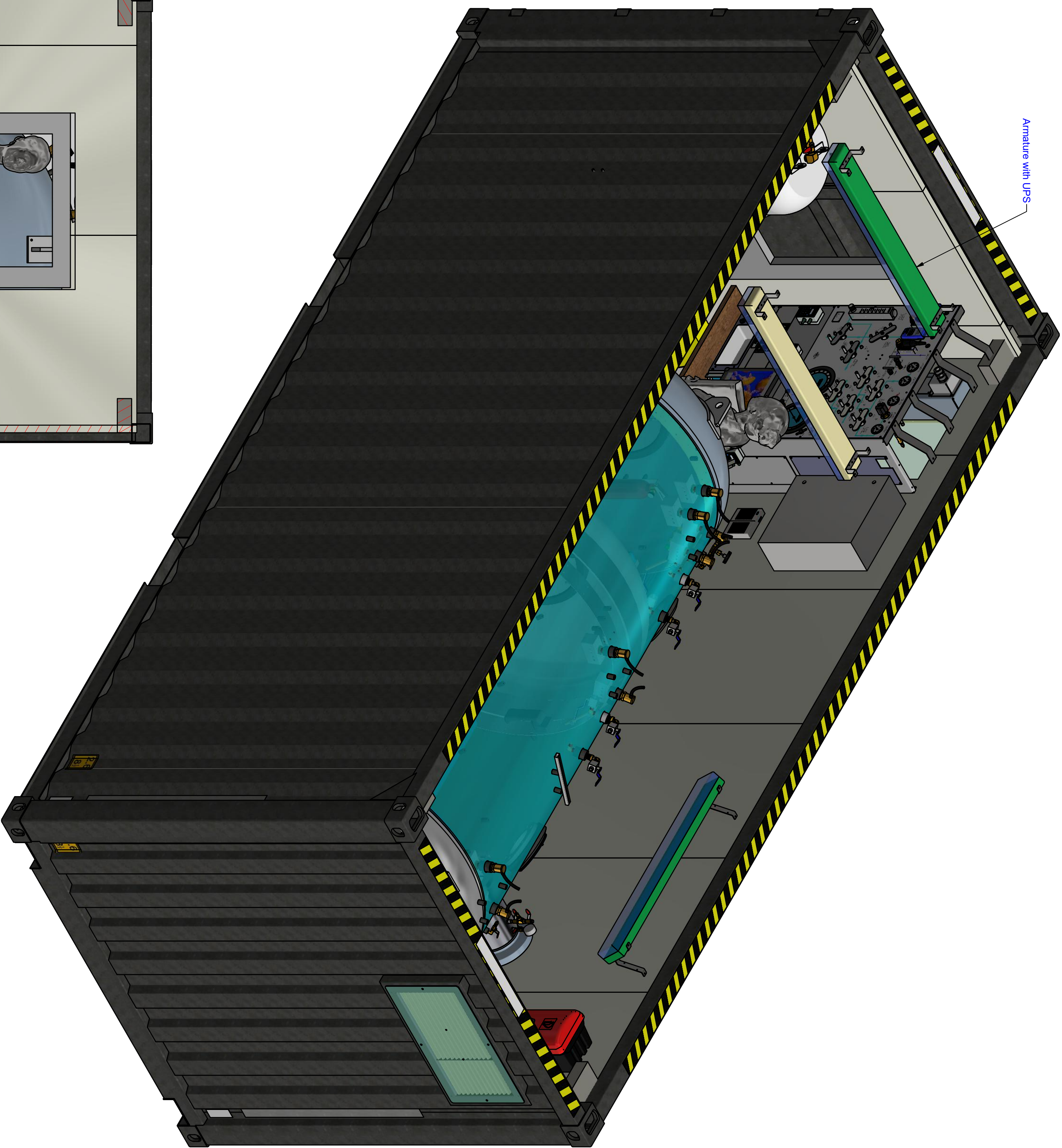
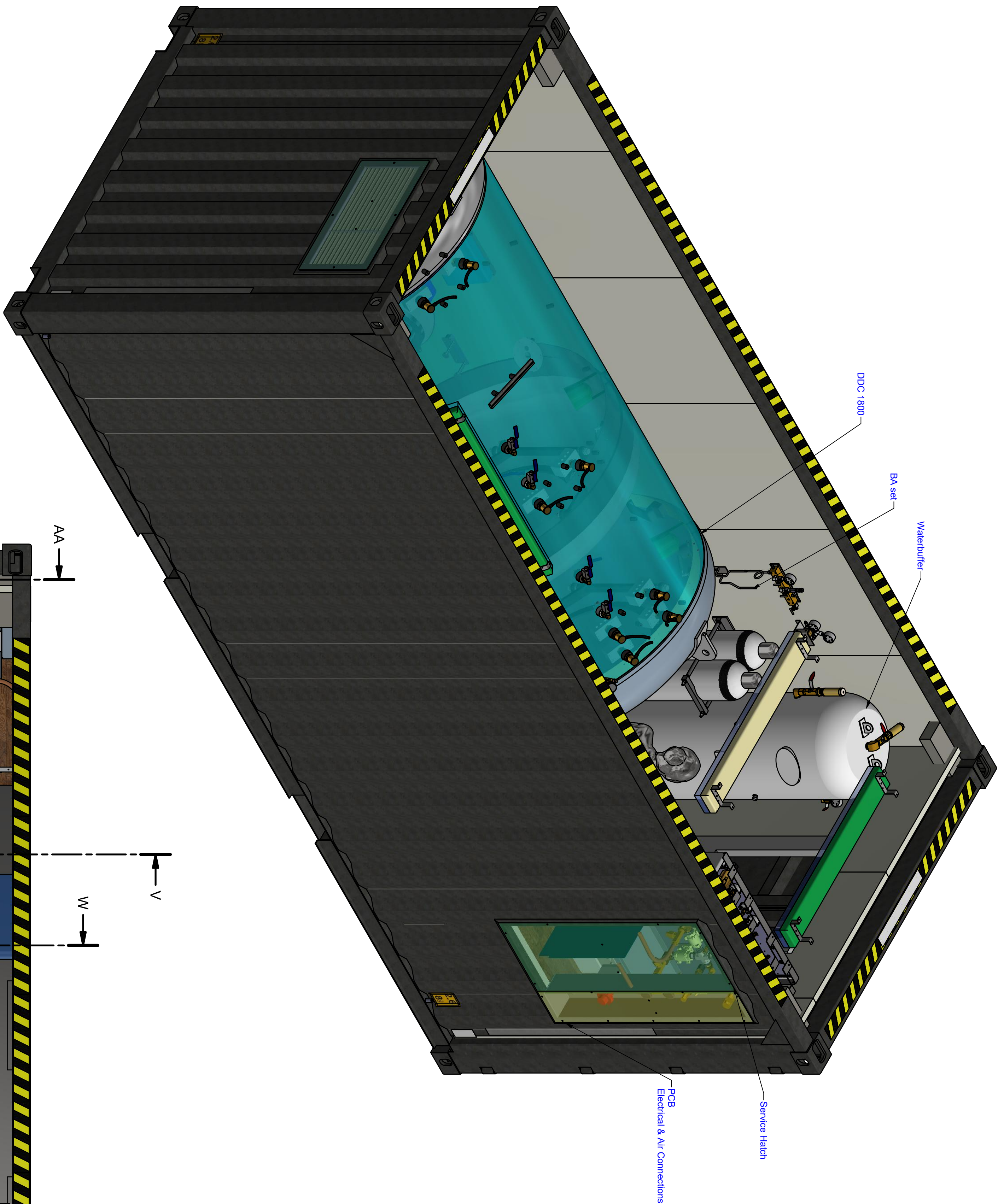
### Gas System

- Complete tubing system
- Possibility to connect external gas racks from outside
- 1 HP Airbank
- 1 HP Oxygen bank
- 1 HP Mix gas bank



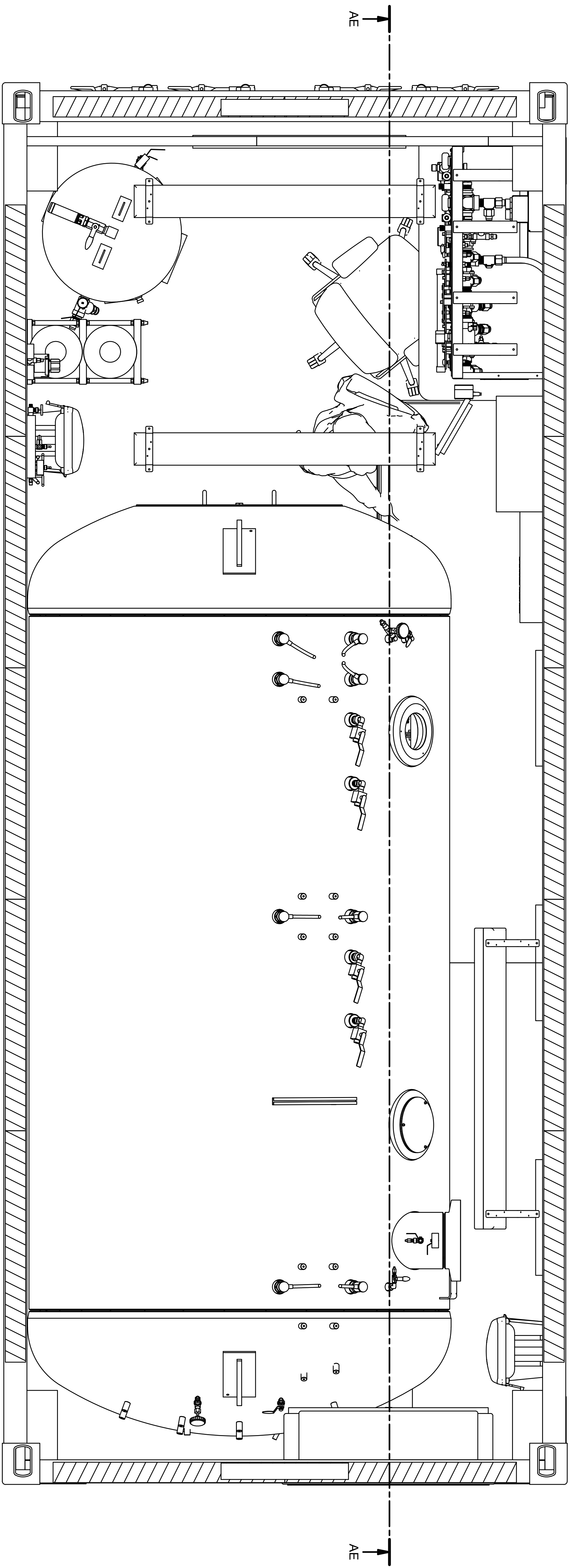


Revision History			
Issue	Date	Revision description	Revised by
A	30-b-2018	Issued for information	P-G
B	30-b-2018	Issued for production	P-G
C	30-b-2018	As-Built	P-G



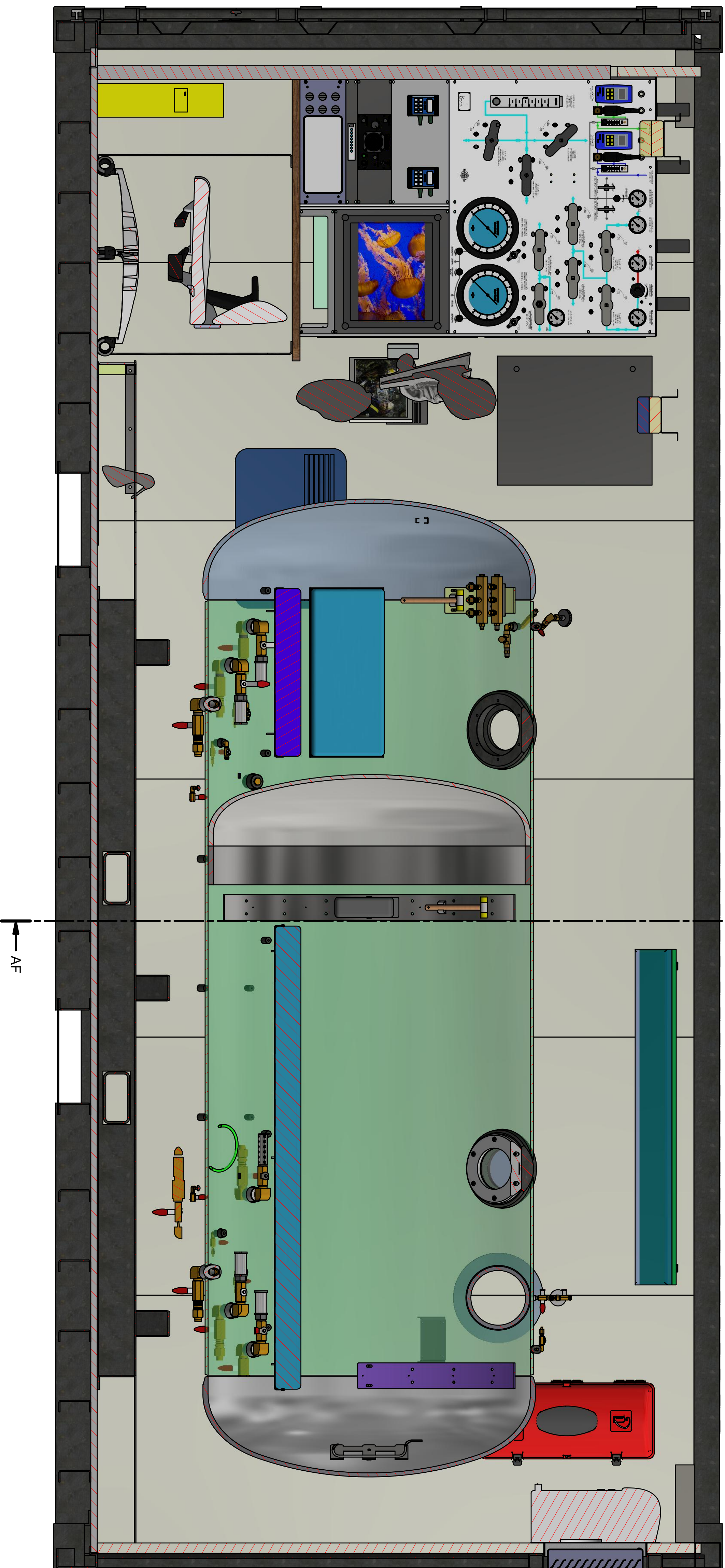
Control and Machinery Containers			
Main Assembly Container Flange Deck			
PM-MAB-0003			
Released			
17/2 17/18/20			





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