# Introducing Magellan Explorer

Magellan Explorer will join the Antarctica21 fleet during the 2019-20 season. She is the world's first expedition ship custom designed for Antarctic air-cruise operations. The ship provides a stylish base for our guests' adventures, combining excellence in expedition and boutique hospitality.

Magellan Explorer will carry the Company's new branding, which will be rolled out starting in May 2018.





Strong and agile, *Magellan Explorer* has been developed from the ground up as the ideal platform for Antarctica21's air-cruise operations. Several international polar expedition experts have contributed

to the design of the ship. Working with designers, engineers, and naval architects, they developed a wide range of technical solutions designed to enhance the expedition experience of guests.

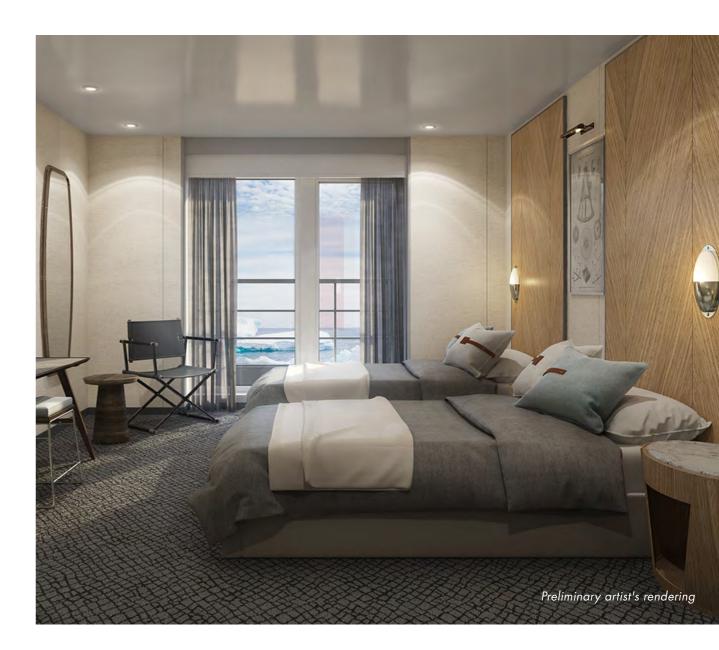


# Guest Centric Interior Design

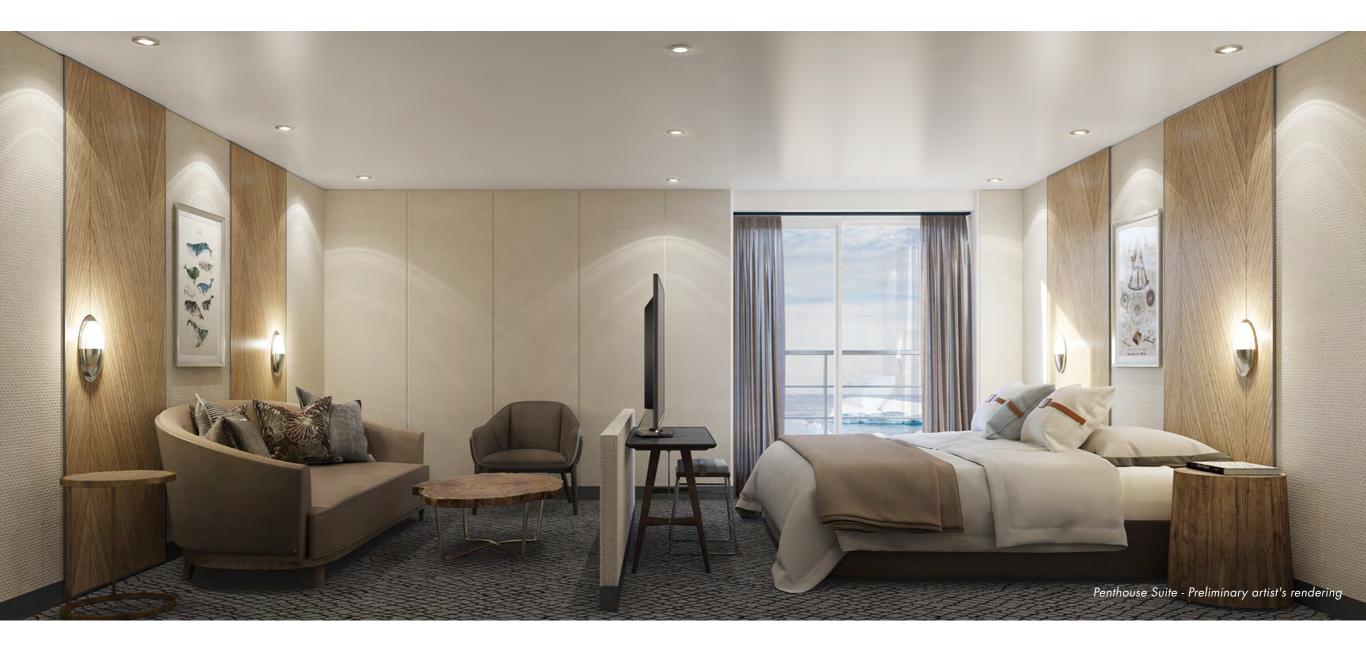
The elegant interior spaces of the new vessel were designed by Enrique Concha & Co, a renowned interior design studio based in Santiago de Chile. Every detail, from colours, to materials, to lighting, has been carefully selected to enhance the traveller's experience. The result is a modern environment that provides comfort, style and efficiency.

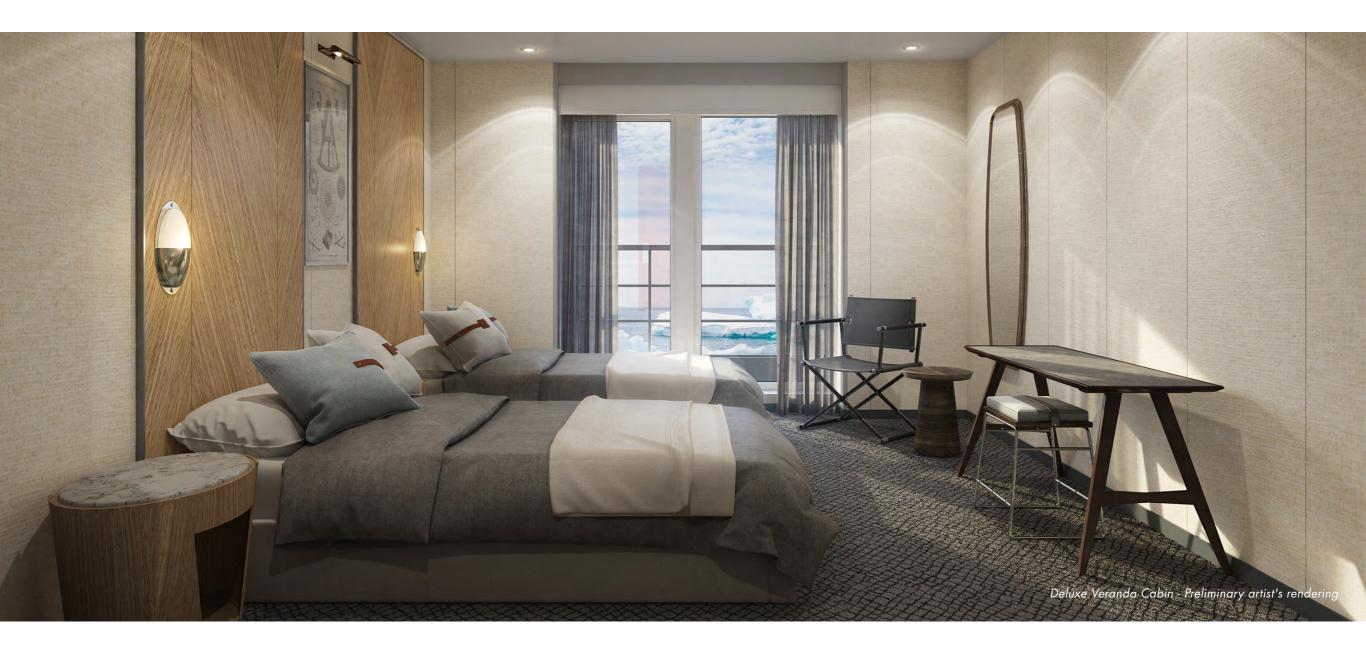
### Suites and Cabins

Seven different accommodation categories are available to guests. Accommodations are spacious, ranging in size from 40 sq. mt. (440 sq ft) to 20 sq. mt. (220 sq ft.). All suites and most cabins offer a private balcony. Sleeping arrangements can be configured as either one king-size bed or two twin beds, in most cases.















### Amenities & Services

Public areas include a spacious forward-facing observation lounge and bar that is also used to deliver briefings and educational presentations. The bow of the ship is accessible to guests; together with the outdoor observation deck it offers expansive views and close contact with the natural environment during exploration. The dining room accommodates all guests and expedition staff in a single sitting. There is also a meeting room, a library, a gift shop, a protected outdoor barbecue area, a gym, and a sauna. Adventure activities, such as kayaking and snowshoeing, are available.

### The Vessel's Features

The ship is being built to the latest Polar Code specifications and carries a Polar Class 6 ice-class (Lloyd's Register PC6). For comfortable navigation, the ship features stabilizers; for maneuverability, she features bow and stern thrusters. For safety in navigation, there is an ice-detecting radar. And to reduce the environmental footprint, the vessel is equipped with an energy-recovery system that recycles the heat produced by the engines to warm up the ship and its water supply.



### The Vessel's Features

#### **GUEST FEATURES**

- A bar offering a selection on Chilean domestic and international drinks
- · Gym and sauna
- Well stocked library with a collection of Antarctic-themed books in multiple languages
- Local intranet with daily programs, international news, etc. accessible wirelessly throughout the ship
- Meeting Room with multimedia resources and interactive science lab
- · Satellite internet service available at a charge and accessible wirelessly throughout the ship
- · Forward observation deck and accessible bow
- Zodiac embarkation area equipped with hangers, lockers and sitting facilities

#### **DINING FEATURES**

- Main dining room offers buffet breakfast and lunch, and table service dinner
- The вво deck offers al fresco dining, weather permitting
- Express Lunch option available daily in the Library
- Selection of premium Chilean wines served with lunch and dinner
- Snacks and drinks during welcome and farewell celebrations
- Complimentary self-service coffee, tea, chocolate, cappuccino, and water offered 24/7 in the library and bar

#### **TECHNICAL FEATURES**

- · Retractable stabilizers
- · Double hull construction
- · Bulb designed for polar navigation
- · Bow and stern thrusters
- · State-of-the-art navigation equipment
- · Latest ice radar technology
- Two mid-ship gangways for Zodiac operations
- · Large expedition warehouse
- Tier III compliance, the most stringent emission standard
- · Heat recycling system
- · Fleet of 10 Zodiac boats

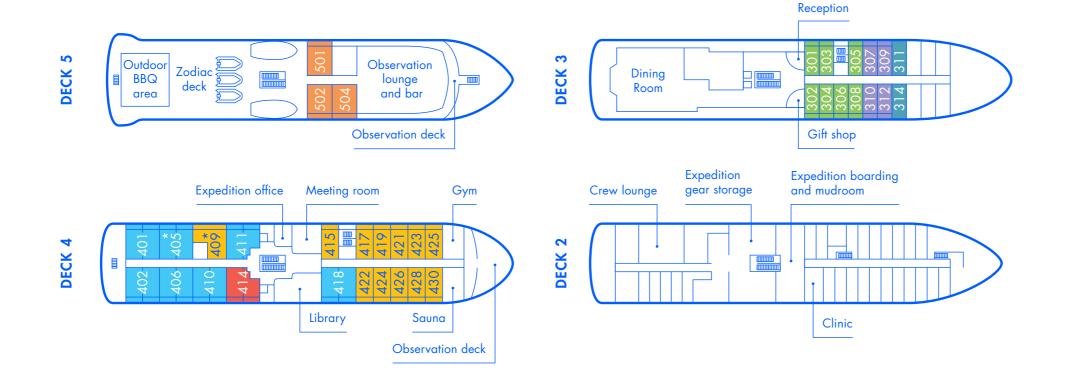
## Specifications

- Passengers: 100 maximum\*
- Staff and crew: 60
- Length: 90.7 m (298 ft.)

- Breadth: 16.2 m (53 ft.)
- Draft: 4.3 m (14 ft.)
- Gross tonnage: 4,900

- Ice-class: LR PC6
- Propulsion: 2X MAN main engines, total 3,440 kW
- Speed: 14 knots
- Flag: Bahamas

\* Maximum of 69 guests for air-cruise operation



#### **CABINS**

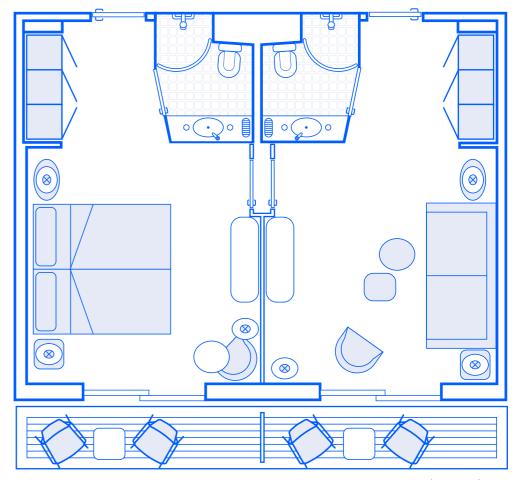
- Grand Suite
- Penthouse Suite
- Deluxe Veranda Cabin
- Veranda Cabin
- Porthole Cabin
- Single Veranda Cabin
- Triple Suite
- ★ Only available with queen-size bed

#### SUITES AND CABINS DETAILS

### Grand Suite

- $40 \text{ m}^2 / 440 \text{ sq. ft.}$
- Located on Deck 4
- 2 twin beds or 1 king-size bed
- Separate living area with queen-size sofabed and coffee table
- Desk and chair sets in both living and bedroom areas
- 2 armchairs with side tables
- 2 private balconies with sitting areas
- Combo Euro-American electrical outlets with USB port

- Safe
- Telephone
- Hairdryer
- Selection of snacks restocked daily
- Mini-bar restocked daily
- Coffee maker
- 2 larger private bathrooms with separate shower
- Premium bathroom amenities
- Bathrobes and slippers



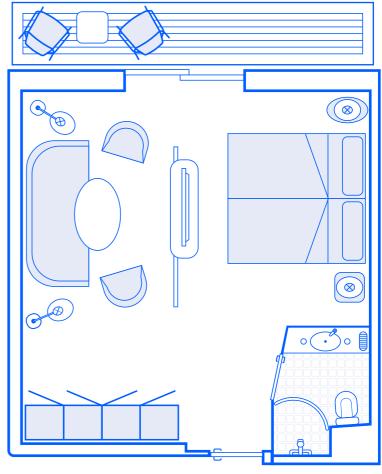
Preliminary layout

#### SUITES AND CABINS DETAILS

### Penthouse Suites

- $30 \text{ m}^2 / 330 \text{ sq. ft.}$
- Located on Deck 5
- 2 twin beds or 1 king-size bed
- Separate sitting area with sofa and coffee table
- Desk and chair
- 2 armchairs
- Private balcony with sitting area
- Combo Euro-American electrical outlets with USB port
- Safe

- Closed-circuit TV screen
- Telephone
- Hairdryer
- Selection of snacks restocked daily
- Mini-bar restocked daily
- Coffee maker
- Larger private bathroom with separate shower
- Premium bathroom amenities
- Bathrobes and slippers



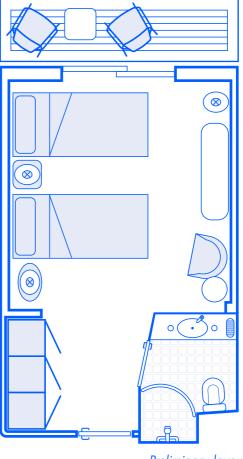
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#### SUITES AND CABINS DETAILS

### Deluxe Veranda Cabin

- $20 \text{ m}^2 / 220 \text{ sq. ft.}$
- Located on Deck 4
- 2 twin beds or 1 king-size bed
- Desk and chair
- 1 armchair with side table
- Private balcony with sitting area
- Combo Euro-American electrical outlets with USB port
- Safe
- Telephone

- Hairdryer
- Selection of snacks restocked daily
- Mini-bar restocked daily
- Coffee maker
- Larger private bathroom with separate shower
- Premium bathroom amenities
- Bathrobes and slippers



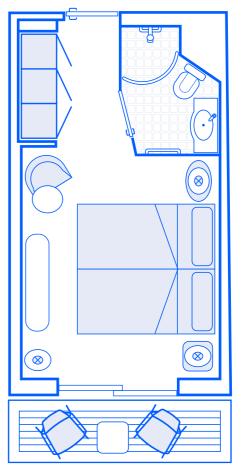
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#### SUITES AND CABINS DETAILS

### Veranda Cabin

- $20 \text{ m}^2 / 220 \text{ sq. ft.}$
- Located on Deck 3
- 2 twin beds or 1 king-size bed
- Desk and chair
- 1 armchair with side table
- Private balcony with sitting area
- Combo Euro-American electrical outlets with USB port

- Safe
- Telephone
- Hairdryer
- Private bathroom with separate shower
- Bathroom amenities
- Bathrobes and slippers



Preliminary layout

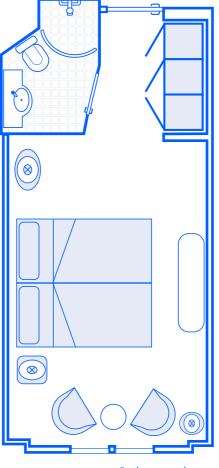
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#### SUITES AND CABINS DETAILS

### Porthole Cabin

- $20 \text{ m}^2 / 220 \text{ sq. ft.}$
- Located on Deck 3
- 2 twin beds or 1 king-size bed
- Desk and chair
- 2 armchairs with side table
- Combo Euro-American electrical outlets with USB
- Safe
- Telephone

- Hairdryer
- Private bathroom with separate shower
- Bathroom amenities
- Bathrobes and slippers



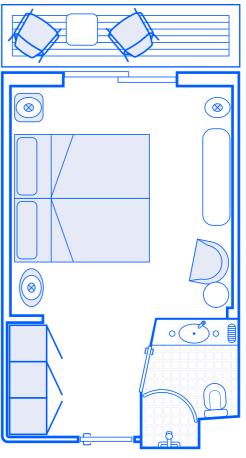
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#### SUITES AND CABINS DETAILS

# Single Veranda Cabin

- $20 \text{ m}^2 / 220 \text{ sq. ft.}$
- Located on Deck 3
- 1 king-size bed
- Desk and chair
- 1 armchair with side table
- Private balcony with sitting area
- Combo Euro-American electrical outlets with USB port
- Safe

- Telephone
- Hairdryer
- Private bathroom with separate shower
- Bathroom amenities
- Bathrobe and slippers



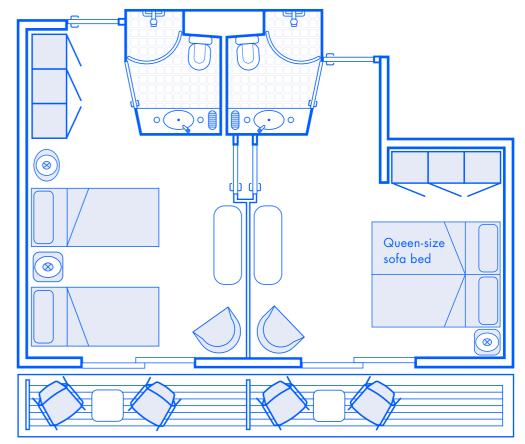
Preliminary layout

#### SUITES AND CABINS DETAILS

# Triple Suite

- $40 \text{ m}^2 / 440 \text{ sq. ft.}$
- Located on Deck 4
- 2 twin beds and 1 queen-size bed (max. occupancy 3 people)
- Separate living area with sofa and coffee table
- Desks and chair sets in both living and bedroom areas
- 2 armchairs with side tables
- 2 private balconies with sitting areas
- Combo Euro-American electrical outlets with USB port
- Safe

- Telephone
- Hairdryer
- Selection of snacks restocked daily
- Mini-bar restocked daily
- Coffee maker
- 2 larger private bathrooms with separate shower
- Premium bathroom amenities
- Bathrobes and slippers



Preliminary layout



### The Interior Design

The team at Enrique Concha & Co. explains the interior design of the new ship.

# WHAT IS THE VISION THAT LEADS YOUR PROJECTS?

We ground each project on a strong conceptual foundation. Ideas are our North Star. As a studio we are quite versatile and that is reflected in the wide range of projects in our portfolio. From hotels based in the forest to urban architecture, we adapt and focus the vision based on the requirements of our clients.

The designs of the Coquinaria and Margó restaurants in Santiago were both conceived in our office, but their styles are completely different. There is a stylistic range in the yachts and ships we have designed. And if we talk about our hotel projects, from the The Singular or Cumbres hotels in Chile, to Arennas Máncora in Peru, each was based on its own unique design concept.

In all cases, what we want is to be faithful to our client's vision, whether that client is an individual or a brand, so that they can identify themselves in our work. That way, we know our designs will be authentic and will resonate with the people who use our spaces.

# WHAT IS THE DESIGN CONCEPT BEHIND MAGELLAN EXPLORER?

I will answer by asking you: Why do your travellers go to Antarctica? They go to see the unique landscape, to observe wildlife, to immerse themselves in pure nature, to enjoy the beauty and silence that can be found in that remote corner of our planet. Those are the images that remain in the memories of travellers.



Enrique Concha Director



José Antonio Anselmo Architect & Design Director



María Fernanda Perez Industrial Designer



Francisco Lara
Junior Architect

Your expeditions elicit powerful emotions and provide inspiration that is deep and meaningful. That privileged contact with nature, the awe and gratitude travellers tell us they feel, are the main anchors of the Antarctica21 experience. Your guests are not looking for lively casinos and endless entertainment choices. They are looking for a rare and exclusive opportunity to connect with nature, to live a transformative experience that is singular, exclusive and personal.

Now, to carry those considerations into the design of the interiors of the ship, we focused our research on four different references: nautical, modern transportation, bold nature and unique lifestyle. We studied each of these references, capturing shapes and styles, integrating elements that spoke to the Antarctic experience. We also profiled the guests, their motivations and objectives. The look and feel we developed is centered on curves and symmetry, organic elements and a feeling of perpetual movement, while giving space to flexible, high-end furnishings. We worked with innovative lighting solutions to create rhythm and volume in the



corridors. The base colour selection was inspired by the Antarctic landscape, with blue tones that recall ancient ice, whites to reflect purity, and a touch of metallic patterns inspired by the rocks. We want travellers to feel the hospitality of a boutique hotel, the style of a modern yacht, and a deep sense of connection to the Antarctic environment.

# HOW LONG DOES IT TAKE FROM CONCEPT TO FINISHED PRODUCT?

Every project is different and depends on many factors. In the case of *Magellan Explorer*, it took about six months to research, set the direction, and develop the plan. Now that the ship is under construction, our design team is working in close collaboration with the shipyard and the team at Antarctica21. We are working together and responding to the various design requirements as the ship is being built. We will be deeply involved in the project all the way to the inauguration, in September 2019.

# HAS THIS PROJECT BEEN MORE CHALLENGING THAN OTHERS?

In some ways, it has been. We have designed ships before but never specifically for Antarctic conditions. Many specific requirements have had to be taken into consideration, impacting the design. For instance, although generally the ship navigates in calm waters in Antarctica, it must also be prepared for navigation on rough seas when travelling there and back. So the impact of the movement of the ship had to be taken into consideration. We have had to consider how to secure furniture, fixtures, and other decorative objects. We have had to develop complex design solutions for many areas of the ship, from cabins, to bathrooms, to the lounge, and even the galley.

# Building an Antarctic ship

Diana Galimberti, Antarctica 21's Executive Vice President, Product and Operations tells us about the new ship.

# WHY WAS THE NAME MAGELLAN EXPLORER CHOSEN?

The name *Magellan Explorer* is a tribute to what distinguishes Antarctica21. Our HQ is in Punta Arenas, the hometown to our founders and the capital city of the Chilean region of "Magallanes", Spanish for Magellan. In 1520, the Portuguese explorer discovered the strait that today bears his name, connecting the Atlantic and Pacific oceans.

At the time of Magellan to the south was the so-called "Terra Australis Incognita". From Punta Arenas many important historic expeditions have left for Antarctica. Today the region has a deep connection to Antarctica and remains one of the major international Antarctic gateways. As "local actors" steeped in this reality, with all the important advantages that gives us in managing our operation, we decided to recognize Ferdinand Magellan by naming the ship in his honour.

# WHAT WAS YOUR ROLE IN THE CONSTRUCTION OF THE NEW SHIP?

My team and I have shared our operational expertise with the designers, engineers and naval architects. We helped ensure that the new ship would be designed to meet all the specific requirements of our Antarctic air-cruises. It has been an exceptional opportunity to contribute and to help shape the ideal ship. The project has been a team effort with the contribution of several international polar expedition experts. One such experts is Mariano Curiel, our Operations Director, who has more than 200 Antarctic trips to his credit.



# WHAT ARE THE MAIN CHALLENGES IN THE CONSTRUCTION OF AN ANTARCTIC SHIP?

Antarctica is one of the most extreme environments on Earth. Human activity couldn't exist there without sophisticated facilities that can withstand those conditions. Low temperatures, sea ice and icebergs that drift with the currents represent the greatest challenge for ships that sail in those remote seas. Safety is undoubtedly one of the fundamental concerns for a polar ship. Two elements in particular are essential to ensure a ship's safety in Antarctica: a suitable hull and state-of-the-art navigation equipment. While Magellan Explorer will sail mainly in coastal areas along the Antarctic Peninsula, where the waters are relatively calm, the ship has been designed as an ocean-going vessel that can navigate the wild Southern Ocean. Magellan Explorer benefits from a system of retractable stabilizing fins that reduce the ship's movement caused by the waves and improve the comfort on board in a significant way.

# YOU SAID THAT MAGELLAN EXPLORER IS PURPOSE-BUILT FOR AIR-CRUISE OPERATIONS. HOW SO?

One of the special features of the air-cruise model is that the ship remains in Antarctica for extended periods of time. Most ships' itineraries start and end at a port, where passengers turnover takes place and where all the necessary supplies, such as provisions, fuel, water, etc. are loaded. Magellan Explorer has been designed to maximize its range, making it the first ship in the world designed specifically for Antarctic air-cruises. When the project was in its early stages, there was intense communication with the engineers at the shipyard on this. Claudio Bobadilla, who is in charge of Marine Operations at Antarctica21, worked hard to verify that all the operational requirements were met. Magellan Explorer is equipped with marine gasoil (MGO) tanks with a total capacity of 720 m<sup>3</sup>, sufficient to allow the ship to operate in Antarctica for 60 days. The ship is also equipped with ample spaces

for storing provisions, including large refrigerated areas and freezers. There are tanks of 200 m<sup>3</sup> on board for the storage of fresh water. Fresh water is produced on board through a desalination plant that guarantees the production of about 24 tons per day. Special attention has also been paid to the ship's waste management processes, since all the waste produced is compacted and stored on board.

# WHAT ABOUT THE SHIP'S HULL? HOW DOES IT DEAL WITH FLOATING ICE?

As I mentioned, one of the biggest challenges for a ship that sails in a polar environment is floating ice. It moves constantly and its presence is unpredictable and random. Consequently, the design and structure of the ship's hull are central to the safety of navigation. Since 2017, the navigation of ships in polar areas has been regulated by standards issued by the International Maritime Organization (IMO) through what is known as the Polar Code. *Magellan* 

Explorer is built with a double hull made of thick steel plates. It has a rounded bilge and a special bulb designed specifically to facilitate polar navigation. The two main engines, with a total power of 3,440 kW, guarantee plenty of propulsion to push sea ice out of the way. All that, together with many other structural elements and state-of-the-art ice radar, ensure that the ships complies with the Polar Code and is given a PC6 Class. Things get very technical but essentially it means that, during the summer and fall seasons, Magellan Explorer can navigate safely in polar seas covered with one year old ice of medium thickness that may contain some older ice. In short, the ship is perfectly suited for the itineraries that Antarctica21 offers in the Antarctic Peninsula.

# THE SHIP HAS A HEAT RECOVERY SYSTEM. WHAT IS THAT ABOUT?

It is a system that recovers and repurposes the residual heat produced by the engines. Using heat exchangers, energy is extracted from the engines' cooling liquid. That energy is then reused in the operation of the ship's heating system, to heat water used on board, and for the production of the ship's fresh water supply. Antarctica is a wildlife sanctuary and one of the most pristine places on our Planet. Its conservation is one of the great commitments of the international community. In designing the ship, we worked hard to ensure energy efficiency so as to minimize environmental impact. I should also note that both main engines comply with the Tier III emission standard, the most stringent emission standard in the shipping industry.

# ANY OTHER TECHNICAL REQUIREMENTS WERE CONSIDERED FOR THE SHIP?

One of our central objectives has been to create a ship that supports our specific expedition style. We like to travel in search of the best places and the best opportunities to visit the White Continent, adapting constantly to the changing ice and the climate conditions. We want to be able to adapt to wildlife

patterns and to make quick decisions about a trip's itinerary. For that, we need the flexibility that only a relatively small and very maneuverable ship like Magellan Explorer can provide. The ship is extremely agile and is equipped with bow and stern thrusters of 500 KW each. We have the ability to operate Zodiac boats from two mid-ship gangways since the ship is equipped with two landing gates and a double set of cranes. It allows us to offer greater protection and stability against the swell or wind during Zodiac operations. We can also be very quick and efficient with embarkation and disembarkation, avoiding unnecessary wait times for our guests. Finally, the ship is equipped with a large expedition warehouse that runs across the entire width of the ship. That area supports the outdoor activities we offer, such as sea kayaking, and hiking and snowshoes, allowing us to deliver those experiences efficiently and to a high quality standard.

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