
Press release

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MAN 21/31 Mk2 PLO GenSets for Antarctica Cruise Ship

Chilean tour operator, Antarctica21, chooses MAN engines once more for diesel-electric set-up for new 94 metre newbuild; follows similar ship from 2019 with same engine type

Chilean shipbuilder, ASENAV (Astilleros y Servicios Navales S.A.), has ordered 4 × MAN 6L21/31 Mk2 PLO (Part-Load Optimised) GenSets for a 94-metre, passenger cruise-ship newbuilding for Antarctica21, the world's leading provider of air-cruises. The 'Magellan Discoverer' will be slightly larger than a similar ship in the Antarctica21 fleet, the 'Magellan Explorer' from 2019, which has the same engine type installed and can also boast of a PC6 polar-ice classification.

ASENAV is the largest private shipyard on the Pacific and Caribbean coasts, adding significant value when promoting MAN engines aboard notable vessels all across America.

Each GenSet will come integrated with MAN Energy Solutions' proprietary LP-SCR (Low-Pressure Selective Catalytic Reduction) system that delivers NO_x-reduction rates of up to 90% in fulfilling the latest IMO environmental requirements. The engines will be built at MAN Energy Solutions' facility in Aurangabad, India where a very compact RAMME PM (Permanent Magnet) alternator will also be integrated.

Jaime Vásquez, President of Antarctica21, stated: "We are delighted to reaffirm our partnership with MAN Energy Solutions Chile by selecting the 21/31 Mk2 PLO engine for our new polar vessel. This engine sets the standard for the lowest fuel consumption in its category. Our continued trust in MAN Energy Solutions after-sales service in Chile, renowned for its reliability and expertise, reinforces our decision."

Gerardo Schneeberger – Head of Sales, Chile – MAN Energy Solutions, said: "We are very proud of this repeat order by Antarctica21 at ASENAV for MAN 21/31 engines. This displays great trust in MAN technology and further cements the solid foothold that our small-bore, four-stroke, medium-sized engines have established in the Chilean market. The unique capabilities offered by PrimeServ Chile's 24/7 service within all Chilean territories have also been key to winning this order."

Christian Kamm – Sales Manager Europe, Marine – MAN Augsburg, said: "The optimised MAN 21/31 Mk2 PLO GenSet improves fuel efficiency without additional costs and combines classic engine-design principles with innovative technology. The integrated SCR system will also ensure the protection of the pristine marine environments that this cruise ship will operate in."

MAN 21/31 engine

The MAN 21/31 Mk2 PLO engine maintains a significantly reduced fuel-consumption (up to 9 g/kWh@75% MCR) with the longest times between overhaul in its class. It also comes equipped with MAN's modern Safety and Control System (SaCoS_{one}). Furthermore, the Mk2 engine is capable of burning conventional fuels like HFO/LSFO, MDO and MGO, complying with new ISO 8217:2024 fuels, as well as sustainable fuels like biodiesel FAME and HVO-100.

The 21/31 Mk2 PLO engine is designed as 'methanol-ready' with 'Approval in Principle' from the DNV classification society for retrofit to methanol operation as a green fuel at a later date, should it be required.

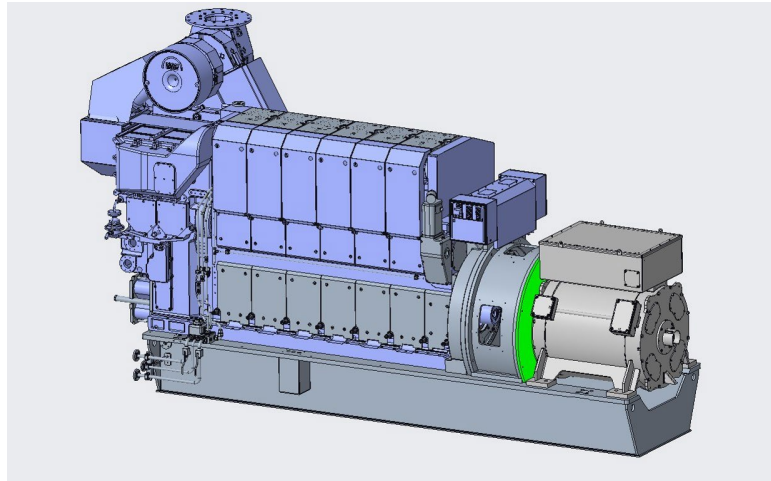
Originally designed in 2000/2001 with the goal of providing a compact and robust engine, the 21/31 engine is characterised by its easy installation and maintenance. To date, between ordered and delivered engines, the 21/31 has accumulated sales of some 2,750 units.

The MK2 PLO GenSet was introduced to the market in spring 2023 and has already made some 30 sales, especially within the offshore wind and cargo/passenger ferry segments.

About Antarctica21

Antarctica21 specialises in fly-and-sail expeditions to the White Continent. The company was founded in 2003 by adventurers who believed there was a better way to travel to the Antarctic Peninsula. Before Antarctica21, travellers who wanted to reach the Peninsula had only one option: a two-day cruise across the notoriously rough seas of the Drake Passage. Since then, however, the company's boutique expeditions have offered a more comfortable alternative. A two-hour flight takes guests from Punta Arenas, Chile, directly to King George Island, where they then board their expedition ship. No stormy crossing. No seasickness. Just quick, total immersion in the Antarctic experience. The company's ships accommodate a maximum of 76 guests, offering flexibility and access that larger vessels can't match. Guests embark and disembark efficiently, so time ashore is focused on savouring every moment of a travel experience unlike any other.

www.antarctica21.com



MAN 6L21/31 Mk2 PLO GenSet rendering with project-specific RAMME alternator



Graphical rendering of the coming cruise ship (courtesy Antarctica21)

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.