

OUR CLIENT MITSUBISHI INDUSTRIES - NAGASAKI YARDS
OPERATORS WALLENIUS WILHELMSSEN



DESCRIPTION OF THE PROJECT

Mitsubishi Heavy Industries, Nagasaki Yards has given Novenco, Hi-Pres Marine HVAC the order for the complete ventilation systems on the cargo decks for Mitsubishi's PCTC for Wilhelmsen Lines. This order is for 3 vessels + 3 options.

TOUGH NOISE REQUIREMENTS

The challenge was some very tough noise requirements both inside the vessel and to the open air. Furthermore, the noise requirements were different based on the position on the vessel. Novenco has chosen to solve the problem with a newly developed Hi-Pres Car Carrier Ventilation Unit. It basically consists of a high efficiency fan, a closing damper, compact silencers, a demister and an acid proof stainless steel housing.

NEW CAR CARRIER UNIT

The outside air first passes through an extreme high-efficiency demister which separates water and salt particles down to sizes much smaller than "Green Sea". The air then passes through a very compact silencer which attenuates the sound from the fan down to the noise levels specified in open air. Basically, this can be custom made to any noise level.

The air is then passing the high efficiency fan (can give over 80% efficiency) and through the closing damper. In this case Mitsubishi has chosen manual dampers, but electric, pneumatic or hydraulic dampers can be mounted.

With the very tough noise requirements inside the vessel, Novenco chose to insert their compact silencer in the vessel's trunk. With less noise requirements, the silencer for the cargo deck noise levels can be built into the Hi-Pres Car Carrier Ventilation Unit.

The 31 Hi-Pres Car Carrier Ventilation Units per vessel can be mounted directly on the top deck fulfilling all requirements from IMO.

EXPERIENCED PARTNER

By the co-operation and combined experience by Mitsubishi and YORK Novenco, it is secured that ALL the specified requirements of air flows, noise requirements and power consumption are met.

Wilhelmsen Lines will receive a very quiet ventilation system with the lowest power consumption and the equipment will last throughout the entire life span of the vessel.

FAN AND DAMPER

The inside of a HI-PRES Car Carrier Ventilation Unit in the Novenco factory with fan and damper.



SILENCER AND DEMISTER

The inside of a HI-PRES Car Carrier Ventilation Unit in the Novenco factory with silencer and demister part in the front and fan, damper and housing at the back.



Two of the completed Hi-Pres Car Carrier Ventilation Units for shipment. A total of 31 units will be shipped for each vessel.