



MALTA'S MARITIM HOTEL GETS A FRESH LOOK WITH SIGMA, YUTAKI & SAMURAI



Maritim Antoine Spa & Hotel in Mellieha, Malta

The 4* Maritim Spa & Hotel in Mellieha, a Mediterranean resort in the north of Malta, has been fully refurbished, while its part, La Salita Hotel, has been extended. In order to guarantee a comfortable stay to its holidaymakers and reduced operating costs to the hotel management, the Maritim Hotel has been equipped with exclusive energy efficient air-conditioning & domestic hot water systems by Hitachi Cooling & Heating.

Solutions & Application



VRF



DHW



CHILLERS



HOTEL

"We've had a good experience with Hitachi Cooling & Heating products for a couple of years now, when several VRF systems were installed in the hotel's extension in 2018 and they proved to be reliable and energy efficient".

Mr. Robert Refalo,
Titan International Ltd Service Manager
(Hitachi Cooling & Heating distributor)

Key outcomes

- ✓ Comfortable air-conditioned guestrooms and lobby area.
- ✓ More efficient DHW system in comparison with a traditional heater (boiler).
- ✓ Less environmental impact of the electric heat pump compared to the diesel boiler due to reduced CO2 emissions.
- ✓ Significant reduction in maintenance costs.

Issues to be addressed

The main objective of the Maritim/Salita project was to upgrade the existing AC system in the hotel while optimizing installation costs, as well as to install new energy efficient equipment in the newly-built Salita extension (part of the Maritim hotel).

- Replacement of a traditional diesel boiler by the electric heat pump Yutaki S80 for more energy savings and less environmental impact.
- Replacement of old Hitachi Cooling & Heating Samurai AG1 series chillers by Samurai L heat pump screw chillers.
- Installation of new VRF units for rooms in the Salita hotel's extension.
- Centralized control and energy savings thanks to the CSNET Manager 2 controlling cooling/ heating modes in each room.

Key stakeholder requirements

As Maritim Hotel has been installing Hitachi Cooling & Heating AC systems since 2018 and they proved to be reliable and energy efficient, since 2018, it was required that new Hitachi Cooling & Heating brand equipment be installed both in Maritim & Salita hotels.

Our solution

The Yutaki system S80 is the best solution for the renovation of existing heating systems, while VRF systems fit perfectly buildings with large spaces such as hotels.

- **Energy efficiency** — Better energy efficiency with heat pumps compared to a replaced diesel boiler.
- **Top reliability** — Good experience with previous Hitachi Cooling & Heating equipment (VRF units, chillers).
- **Flexible Installation** — Less footprint of Yutaki S80 compared to a boiler and a diesel tank.
- **Installation cost savings** — Use of the existing installation structure to replace chillers and the diesel boiler by Yutaki.



GENERAL INFORMATION

Customer

Maritim Antoine Spa & Hotel

Location

Mellieha, Malta

Project

Air conditioning system changeover

Date of installation

2019

SYSTEM DESCRIPTION

VRF

Outdoor Units

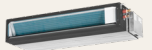
SIGMA SET FREE

- 11 units
- Total capacity: 226 HP (565 kW)



Indoor Units

- 15 Cassettes
- 85 Medium Static Pressure Ducts
- 2 High Static Pressure Ducts



DHW

Yutaki S80

- RWH-5.0NFW
- Size of the unit: 5HP
- Total capacity: 45HP
- Triphase
- Tank capacity: 6000 L
- 9 Outdoor Units
- Controllers: 3 cascade controllers ATW YCC 01



Chillers

Samurai L

- RHME 60AH2
- 2 Heat Pump screw chillers



Controllers

Individual — PC-ARH (for each room)



Centralized Controller - CSNET Manager 2



<https://www.hitachiaircon.com/>