

—

Success that sparks

Discover our projects around the world



Cooling & Heating



Index

Project references

- Hotels
- Lodging
- Living spaces
- Restaurants
- Shops
- Entertainment
- Mixed use building
- Public building
- Commercial Multi-tenant
- Offices
- Healthcare
- Pharmacy
- School/university
- Sports



Hotel

Nippondaira Hotel



VRF



Chiller

HITACHI



Watch the
video here:



GREEN HOTEL

Nippondaira Hotel is rated within Japan's best class of sustainable building (CASBEE S CLASS).

COMBINATION OF SYSTEMS

Hitachi VRF is combined with Hitachi modular Scroll inverter chiller Matrix.

SIMULTANEOUS COOLING & HEATING

VRF heat recovery system is ideal for guests to set their preferred temperature.

TOTAL CAPACITY: 1,700 HP

[Read the full case study](#)

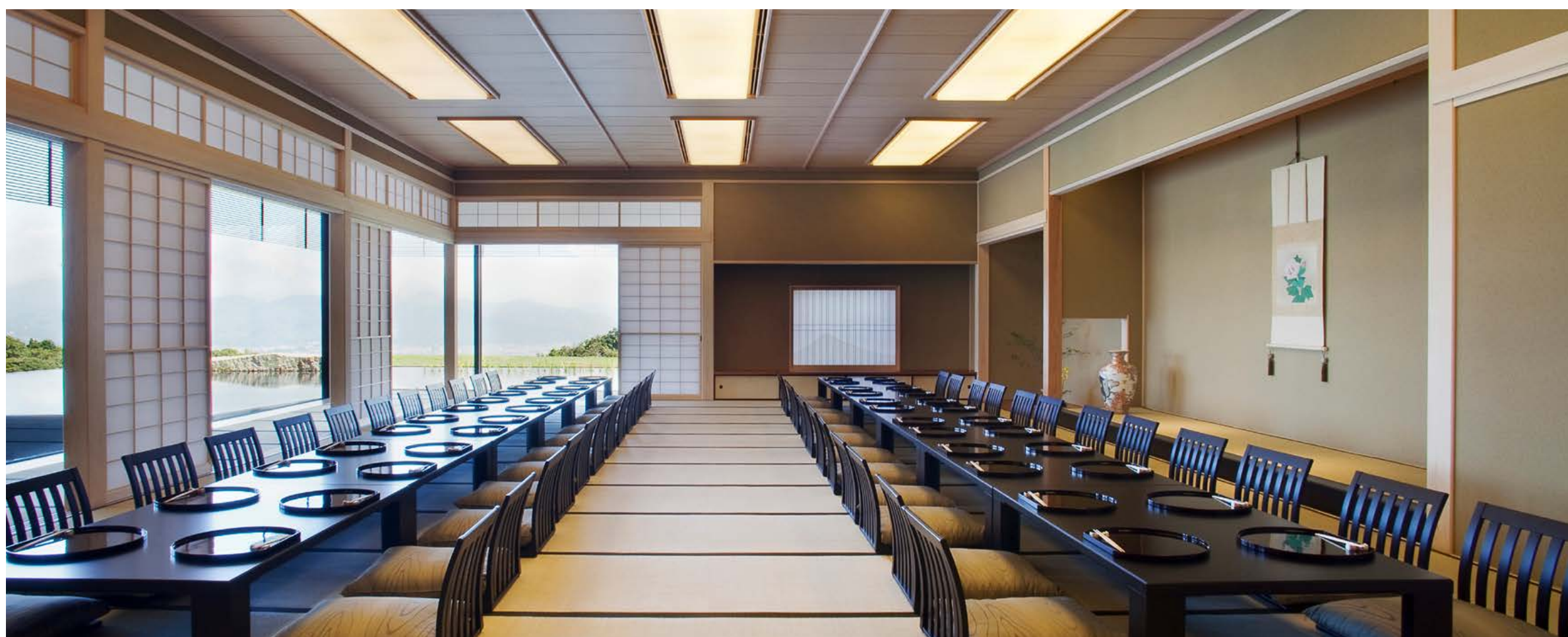
Shizuoka, Japan



Cooling & Heating



New build



“Hitachi’s air conditioning system has enabled us to reduce a lot of our energy spending.”

Noriyoshi Ikegaya
Executive Director of Administration,
Director of Engineering, Nippondaira Hotel



2012





Hotel

Graduate Palo Alto



VRF

HITACHI



ICONIC HOTEL NEAR THE WORLD-FAMOUS STANFORD CAMPUS

From a complete renovation of a 6-story building built in 1929 into a luxurious 100 guestroom hotel with 2 dining venues. The Graduate Palo Alto Hotel required a cooling and heating system that meets the stringent California energy code Title 24.

HITACHI VRF: A GREAT SOLUTION FOR HOTEL RETROFITS

13 Hitachi heat recovery VRF systems were installed to save energy. 4-way mini and 2-way cassettes complement the exquisite interior of the guestrooms.

TOTAL CAPACITY: 116 tons

Distributed by: [Ascent](#)

[Read the full case study](#)

Palo Alto, California, USA



2022



Cooling & Heating



Retrofit

**“With an Integrated
Energy Efficiency
Ratio (IEER) of 23.9*,
Hitachi VRF meets
and exceeds T24
and DOE Efficiency
Requirements.”**

Brian Chacon, Ascent





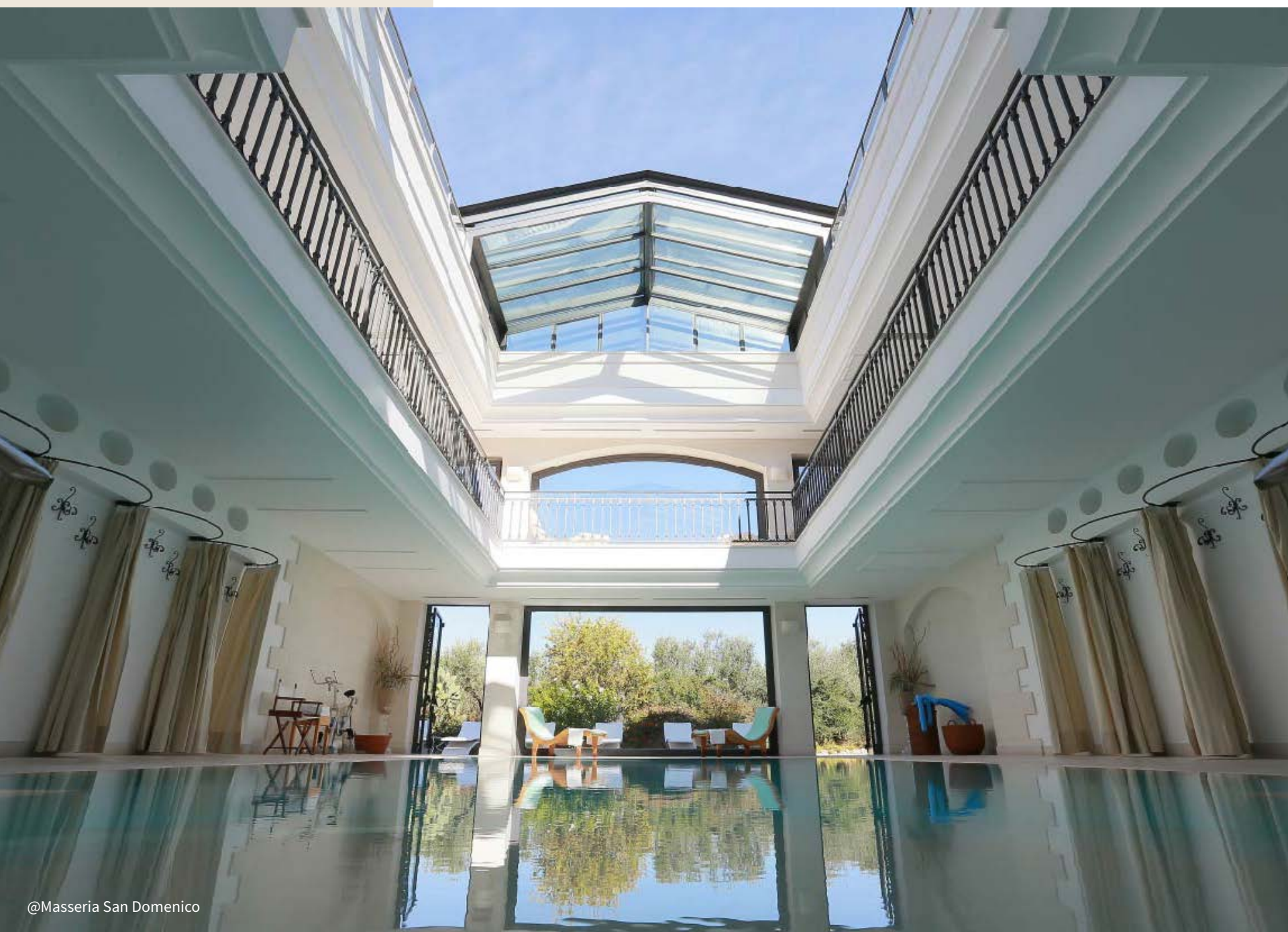
Hotel

Spa & Thalassotherapy center at Masseria San Domenico



VRF

HITACHI



A 14TH CENTURY HISTORICAL MONUMENT CONVERTED IN A 5-STAR RESORT

Masseria San Domenico offers boutique-style intimacy bound with first class facilities, such as outdoor free-form swimming pool, beach access, two tennis courts, a modern gym and a challenging 18-hole golf course.

FOSSILE-FUEL BOILER AND OUTDATED CHLLER REPLACED WITH VRF SYSTEM

Energy-efficient heat recovery SET FREE SIGMA system replaces previous cooling and heating equipment at the spa & thalassotherapy center.

FLEXIBLE CONTROLS, CUSTOMIZED COMFORT

Flexible individual room temperature controls, centralized CS-Net Web, as well as Modbus integration to BMS enable the staff and management to ensure the perfect temperature to guests' needs.

TOTAL CAPACITY: 32 HP / 90 Kw

Distributed by: F.LLI CARPARELLI S.R.L.

[Read the full case study](#)

Fasano, Italy



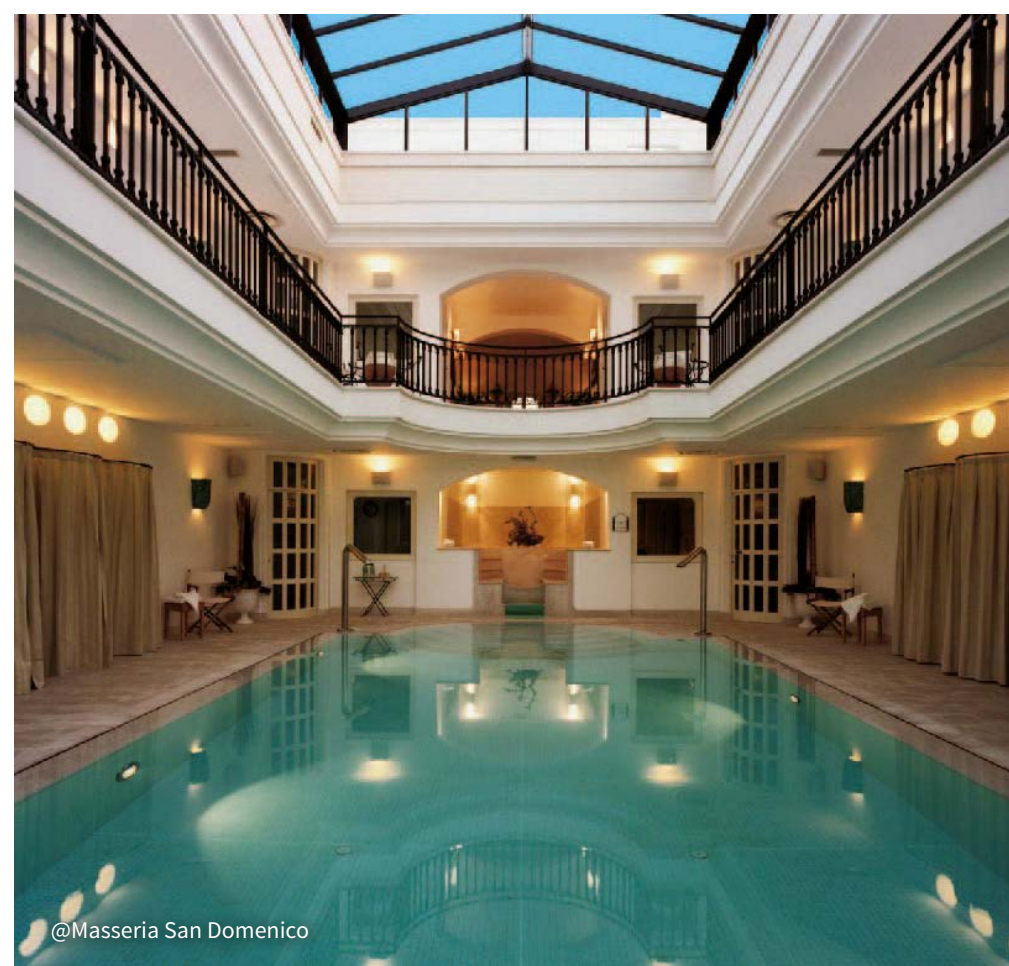
2023



Cooling & Heating



Retrofit





Hotel

The Hive hotel



VRF

HITACHI

COMPLETE AC RETROFIT OF 4* HOTEL IN ROME

190 rooms and suites, 1.200
sqm of gym & relaxation area,
2 restaurants conference
spaces.

MIX OF TOP-FLOW & SIDE-FLOW VRF

20 Outdoor units: 19x top-flow
SET FREE Σ with heat recovery
+ 1x side-flow. 259 indoor units.

INTEGRATION OF CENTRAL CONTROLS

CS-Net LT + BMS ModBus
configuration for guestrooms.

TOTAL CAPACITY: 258 HP

Rome, Italy

© The Hive hotel



Cooling & Heating



Retrofit

© The Hive hotel

© The Hive hotel



2019



Hotel

Higienópolis Hotel



VRF

HITACHI



CITY 4* HOTEL
The hotel has 252 guestrooms. It uses heat pump VRF system and 268 indoor units.

SMOOTH INSTALLATION PROCESS
A transitional installation plan allowed for retrofitting of three floors at a time. This ensured that the hotel could operate normally with minimal disruption for guests.

QUIET OPERATION
RPI-series ducted indoor units deliver quiet comfort at approximately 31 dB(A), dramatically reducing the unacceptable sound levels of the previous system.

TOTAL CAPACITY: 300 HP

[Read the full case study](#)

Sao Paulo, Brazil



2018



Cooling & Heating



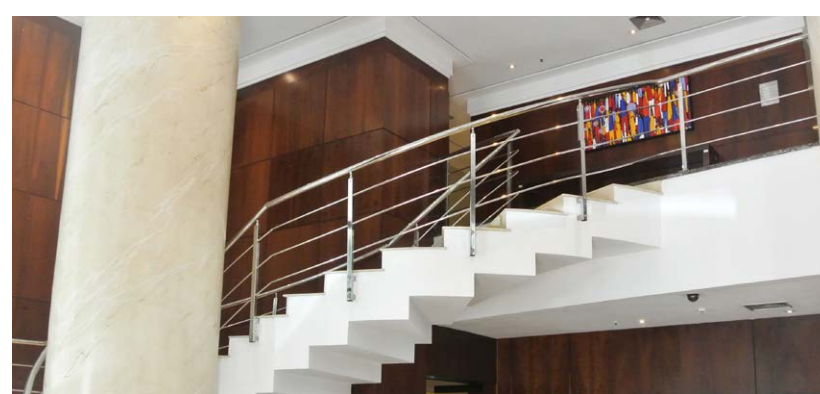
Retrofit

“Since we installed SET FREE Σ, our maintenance and energy costs have significantly reduced.”

Mr. Marcelo Ribeiro
Hotel Chief of Maintenance

“Since we installed SET FREE Σ, we have had zero problems and zero complaints. When our guests are satisfied, so are we.”

Ms. Golda Boruchowski,
Hotel General Manager





Hotel

Maritim Antonine Hotel & Spa



Chiller



VRF



air-to-water
heat pumps

HITACHI



©Albert Camilleri



©Albert Camilleri

“Hitachi 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

COMPLETE HVAC UPGRADE SAVES ENERGY

Combining retrofit & building extension, the 4* hotel went through a progressive renovation of all the cooling and heating equipment in the hotel.

HEAT PUMP REPLACES FOSSILE FUEL

For domestic hot water, the old building’s oil-fired boiler was replaced by a heat pump system consisting of 9 Yutaki units – making up to 45HP- combined with a 6000L tank.

CHILLER & VRF ENSURE HOTEL’S COMFORT

Previous outdated Hitachi chillers was replaced with 2 more energy-efficient Samurai L heat pump screw chillers. New hotel’s extension was equipped with Hitachi SET FREE SIGMA and 102 indoor units, monitored with CSNET Manager 2.

TOTAL CAPACITY: 120HP (chillers) + 226HP /565kW (VRF)

Contractor: *Titan International Ltd*

[Read the full case study](#)



Cooling & Heating



Domestic hot water



Retrofit



New build



©Albert Camilleri



©Albert Camilleri



©Albert Camilleri

Mellieha, Malta



2018-2019



Lodging

Fulton Theatre Artists Village



VRF

HITACHI



VRF TO SAVE ENERGY

Before: Window-type AC with poor energy performance.

FLEXIBLE & PRECISE CONTROL

VRF system gave the actors the ability to control the temperature in their own living spaces.

SIMULTANEOUS COOLING & HEATING

VRF with Heat Recovery system is being used in the 16 actor apartments in the complex.

TOTAL CAPACITY: 22 tons

[Read the full case study](#)

Lancaster, PA, USA



Cooling & Heating



Retrofit



2022



Lodging

Seven Seas Condo Resort Jomtien



Mini-splits

HITACHI

ONE OF THE LARGEST THEMED CONDO RESORTS IN THAILAND
8 buildings and 1,520 apartment units.

SINGLE-SPLITS

The developer wanted individual air conditioning, so each apartment buyer will own and manage their air conditioning system.

SLIM UNITS FOR BALCONY

Compact Hitachi outdoor units were well fit for this project to minimize footprint on the balconies.

BIG ORDER CHALLENGE

Over 2,500 systems installation required not only quality products but also smooth logistics and delivery.

[Read the full case study](#)



Cooling



New build



Pattaya, Thailand



2019



Lodging

Mountain cabin



Multi-split system

HITACHI



SHORT TERM RENTAL CABIN NEARBY FOR VISITORS WISHING TO COMMUNE WITH NATURE

With 136m² of floor space and three bedrooms, the new cabin can accommodate up to 10 guests comfortably. The traditional wooden structure is combined with modern and tasteful interior design, instantly creating a cozy atmosphere for guests to enjoy after a day of outdoor activities.

A good HVAC system was fundamental for this enterprise's success.

HEATING IS NECESSARY AS THE TEMPERATURE REMAIN QUITE LOW

After considering the various options on the market, Mr Jonasson concluded that Triple C was the most suitable equipment. The unique Hitachi multi-split system can provide heating, cooling and domestic hot water using air-source heat pump technology.

The condensing unit can absorb and transfer heat between outdoors and indoor air conditioning units and the water tank.



Cooling & Heating



Domestic Hot Water



New Build

“My conclusion is that this Triple C is the best investment I have made in the cabin. Now I just want to install it at home too”

Cabin owner, Mr. Anders Jonasson on www.smartbereder.no

[Read the full case study](#)



Valle kommune, Agder, Norway



2022



Architect's residence



HITACHI



“Through the simplest form, the most beautiful experience can emerge.”

Archdaily

This beautiful 22,000 sq.ft residence designed by the owner and architect was built across 3 floors, making a peaceful haven in the city.

THE ARCHITECT & OWNER CHOSE SILENT-ICONIC CASSETTES & VRF

To address the humid seaside climate, Set Free Sigma high efficiency series (FSNP) provides reliable cooling all year long. Central Station EZ was installed to operate all the AC units from touchscreen.

TOTAL CAPACITY: 325 kW

Architects: *Aleeya. designs studio*

[Read the full case study](#)

Karachi, Pakistan



2022



©ALEEYA.design studio

“It had to be Silent-Iconic or nothing. It’s by far the best-looking AC currently available on the market.”

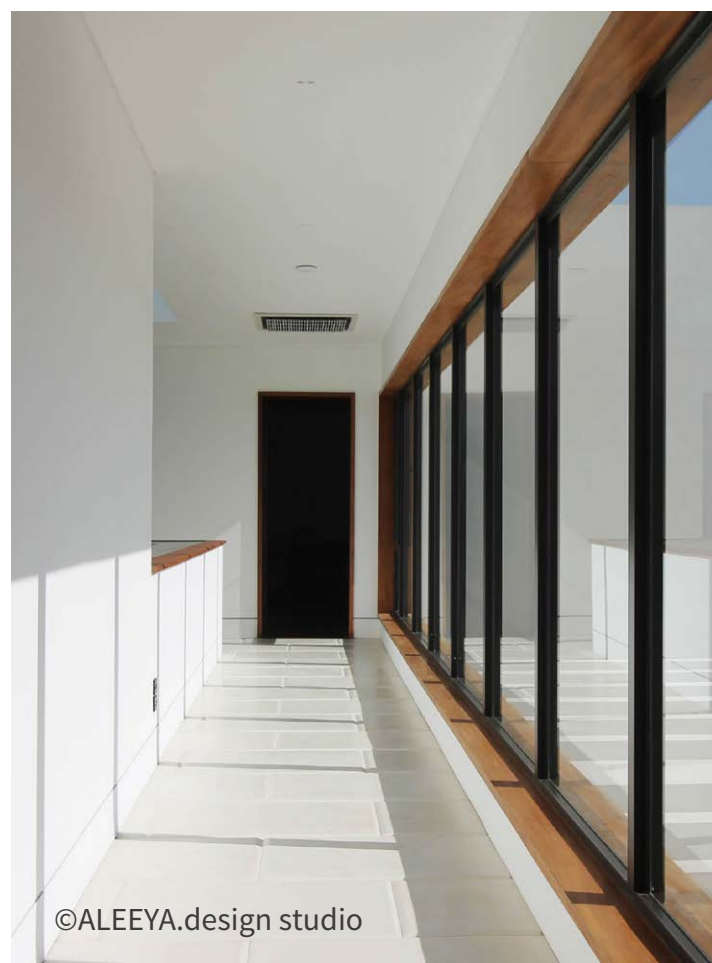
Aleeya Khan, Founder & Principal of *ALEEYA. design studio*



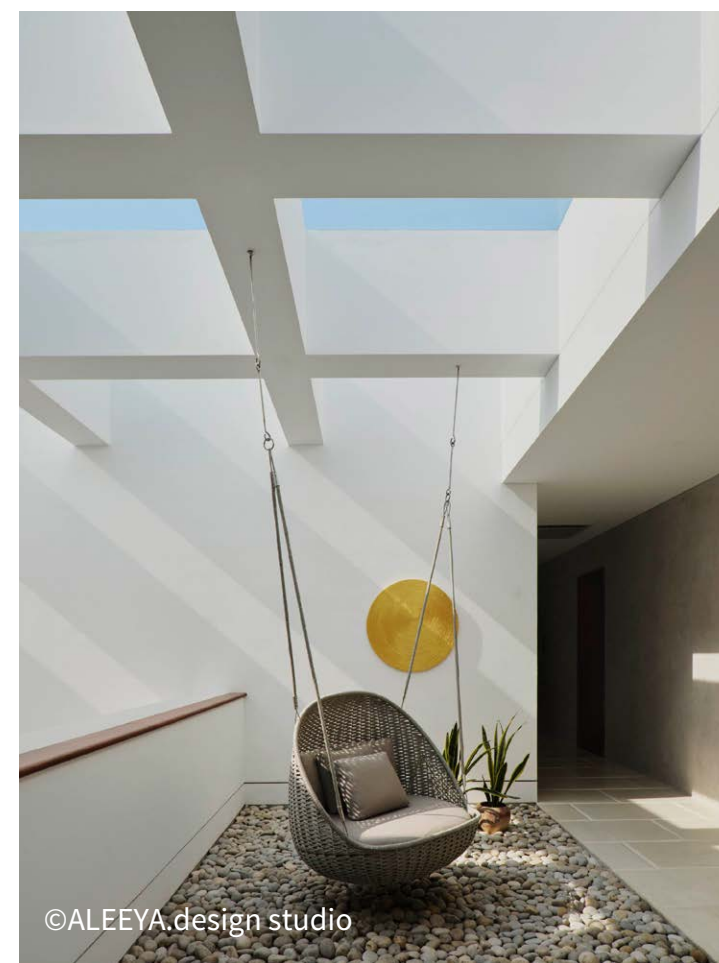
Cooling & Heating



New build



©ALEEYA.design studio



©ALEEYA.design studio



©ALEEYA.design studio



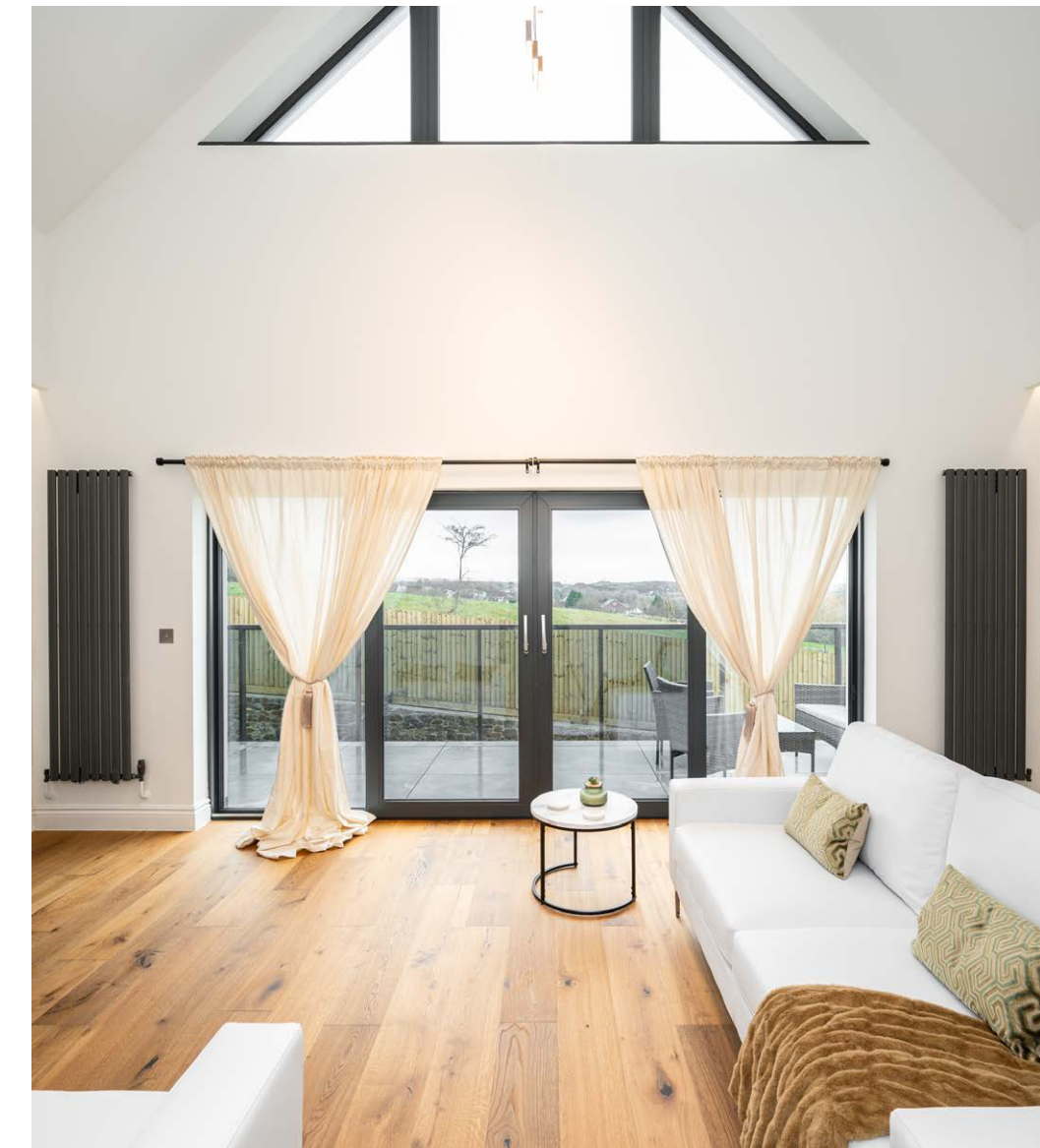
Living spaces

Gwent Properties, Thorntons Quarry



air-to-water

HITACHI



PROPERTIES WITH QUALITIES AND SERVICES THAT REPRESENT A HIGH LEVEL OF SUSTAINABILITY

For this unique development of 47 new build residences, smart homes with underfloor heating on the ground floor, radiators on the first floor, and domestic hot water controlled by a home automation system and mobile app were the services delivered.

Being one of the heat pump solutions with the highest power and smallest footprint on the market, Yutaki M makes this installation an innovative project.

THIS SYSTEM IS USED IN CONJUNCTION WITH A SOLAR PHOTOVOLTAIC SYSTEM AND BATTERY STORAGE

The low consumption pump adapts its flow to the heating requirements within the residence.

The Yutaki M range is compatible with all types of water heat emitters: radiators, underfloor heating. Allowing also to have different heating zones, with radiators upstairs and underfloor downstairs.

TOTAL HEATING CAPACITY: 8kW for 3 bedroom and 11kW for 4 bedroom home

Rassau, Wales



2023



Cooling & Heating



New build

“The units are incredibly quiet, easy to install and very user friendly.”

Ryan Timson, Gwent Properties

[Read the full case study](#)





Living spaces

Edifici Rojas apartment building



Multi-split system

HITACHI



NEW RESIDENTIAL PROPERTY MEETS SPAIN'S 'A' BUILDING ENERGY EFFICIENCY CLASS

This high-efficiency 20-unit apartment building provides the homeowners with sustainable comfort and low annual energy spend.

COOLING, HEATING AND DOMESTIC HOT WATER IN ONE HEAT PUMP SYSTEM

Each apartment unit is equipped with one Triple C system. Low-carbon air-source heat pump technology is used to deliver total comfort: indoor temperature control and hot water production.

TOTAL CAPACITY: 53 HP

Architects: *KUBICAT SLP*

Collaborators: *Grupo Rojas*

[Read the full case study](#)

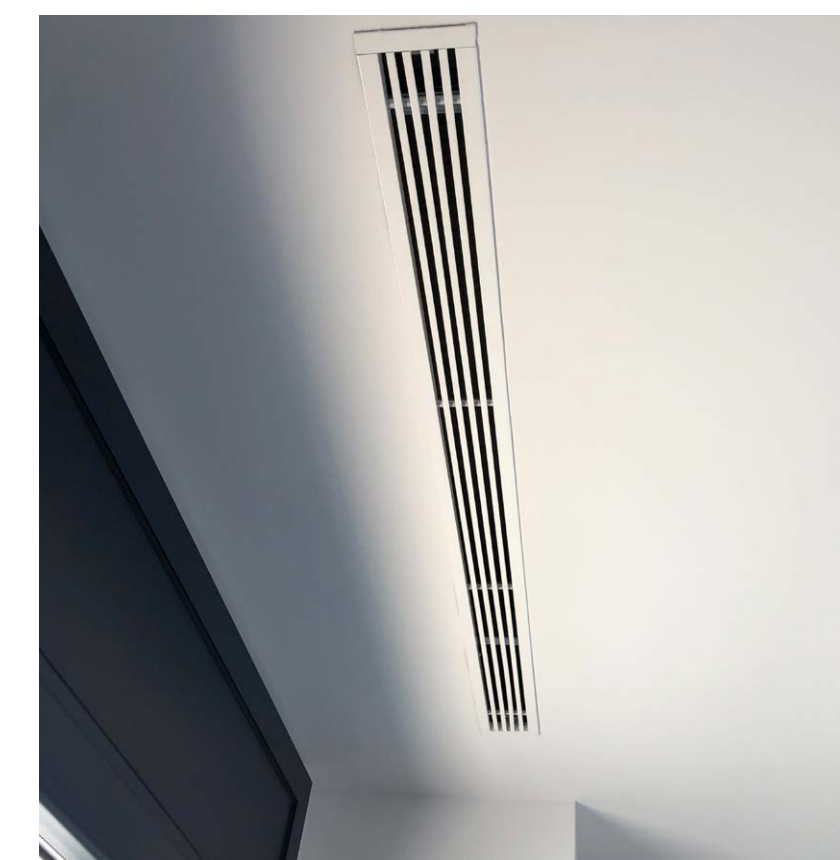
Barcelona, Spain



Cooling & Heating



New build



2023



Living spaces

Luxury home in Mount Martha



VRF

HITACHI



GORGEOUS PRIVATE HOUSE OVERLOOKING THE PORT PHILLIP BAY

This luxury home in Mount Martha, Victoria, was looking to retrofit the air conditioning of the two most important rooms; living room with open kitchen with 3m high ceilings and the large master bedroom.

The owners had already pre-determined what key features they required, which included an essential focus on the aesthetics of the physical units suit the luxurious look and feel of the home's interior.

HITACHI 4-WAY CASSETTE WITH SILENT-ICONIC DESIGN PANEL DUE TO ITS CONTEMPORARY AND PREMIUM FINISH

With unique esthetic value, Silent-Iconic™ fascia features streamlined 4-Way air outlets that appear as slits, minimizing their visual impact. Similarly, the panel which covers the central inlet is louvred to further integrate the unit into the overall look and feel of the space.

For users' convenience in controlling the air conditioning, a design award-winning Advanced-Color wired remote controller was mounted on the home's walls.

Distributed by: [Temperzone](#)

[Read the full case study](#)

Mount Martha, Victoria, Australia



2023



Cooling & Heating



Retrofit





Cocina Hermanos Torres Restaurant



HITACHI



3-MICHELIN STAR*
Sergio and Javier Torres are the most famous chef brothers in Spain.

SPECTACULAR OPEN KITCHEN
The kitchens are open and located at the center of a large luxurious room. Dining tables are placed all around for a unique experience.

QUIET & DISCREET AIR CONDITIONING
17 indoor units, mainly invisible ducted type, cool down the room without disturbance for the cooks and clients.

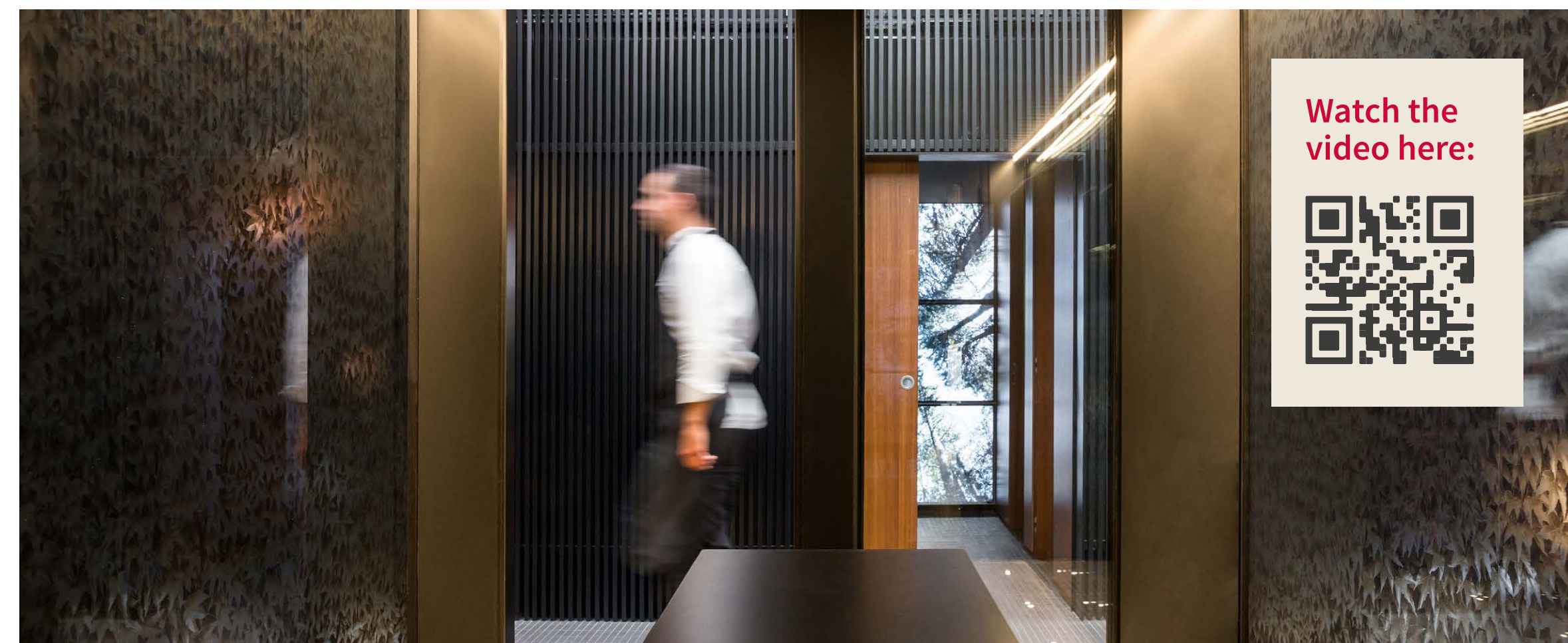
TOTAL CAPACITY: 54HP
**As of Michelin guide in 2022*

[Read the full case study](#)




Cooling & Heating


Retrofit



Watch the video here:



“We would recommend Hitachi to other restaurant owners and colleagues”

Sergio and Javier Torres

Barcelona, Spain



2018





Five Guys



HITACHI



NEW RESTAURANT OPENING
World-famous burger chain Five Guys chose Hitachi Cooling & Heating to ensure comfort at their third location opening in Australia.

SIDESMART™ MEETS SMALL SPACE CHALLENGE
Our slim modular SideSmart units perfectly fitted in the only and narrow space available at the loading dock.

STYLE & RELIABILITY
Hitachi VRF made a great match to Five Guys' esthetic and safety requirements:

- Silent-Iconic cassette was installed in the open kitchen, blending in with the restaurant's interior design style
- Cloud-based airCloud Pro provides 24/7 remote access to the controls and error notifications
- The Central Station mini was interlocked with the restaurant's fire alarm to improve safety.

TOTAL CAPACITY: 45,8 KW
Contractors: Climafreeze and
Distributed by: Temperzone


[Read the full case study](#)

Southbank, Melbourne - Australia



2022


Cooling & Heating


New build





Taco Bell



HITACHI



A NEW RESTAURANT IN A SHOPPING CENTER

This Taco Bell fast food restaurant was opened in 2020 at the first floor of a shopping center.

POWERFUL AIR CONDITIONING FOR EXCELLENCE

The restaurant's kitchen generates significant heat sources. To keep both guests and employees cool, high performance air conditioning system was required.

MULTIZONE VRF LITE SYSTEM

To meet the needs of the restaurant, high-efficiency Utopia IVX Comfort was installed, consisting of 2x outdoor units and 5x indoor units. Indoor ceiling cassettes (4-way and 2-way) deliver a consistent air temperature, as the airflow is directed to all the corners of the venue.

TOTAL CAPACITY: Cooling 41.5KW/heating 48.1KW

[Read the full case study](#)



Cooling & Heating



Retrofit



Barcelona, Spain



2020



Shop

Dondi Salotti shop



VRF

HITACHI

RETAIL CHAIN

Dondi Salotti is a leading retailer of sofa in Italy.

SILENT-ICONIC FOR STUNNING INTERIOR Hitachi VRF is combined with 10 Silent-Iconic indoor units.

TOTAL CAPACITY: 32 HP

[Read the full case study](#)



Cooling & Heating



Retrofit



Biella, Italy



2022



Boutique Dioc



HITACHI



AIR CONDITIONING WITH MORE THAN 30 YEARS OF HISTORY
Choosing the Hitachi Cooling & Heating air conditioner, model ON/OFF RAC-2149CH, manufactured in Japan in 1986.

TIMES CHANGE, SO DO NEEDS
Thirty-three years later, the boutique's air-conditioning equipment is renewed.

CLIMATE CONTROL ADAPTED TO THE CUSTOMER'S NEEDS
Inverter model TAKAI 35. Reference RAK-35RXE:
- Refrigerant R32, High Efficiency A+++, Minimum sound level (22dB), Wi-fi, FrostWash self-cleaning technology.

TOTAL CAPACITY: 3.81KW cooling/heating

[Read the full case study](#)



Cooling & Heating



Retrofit



Madrid, Spain



2020



Lamborghini Showroom



HITACHI

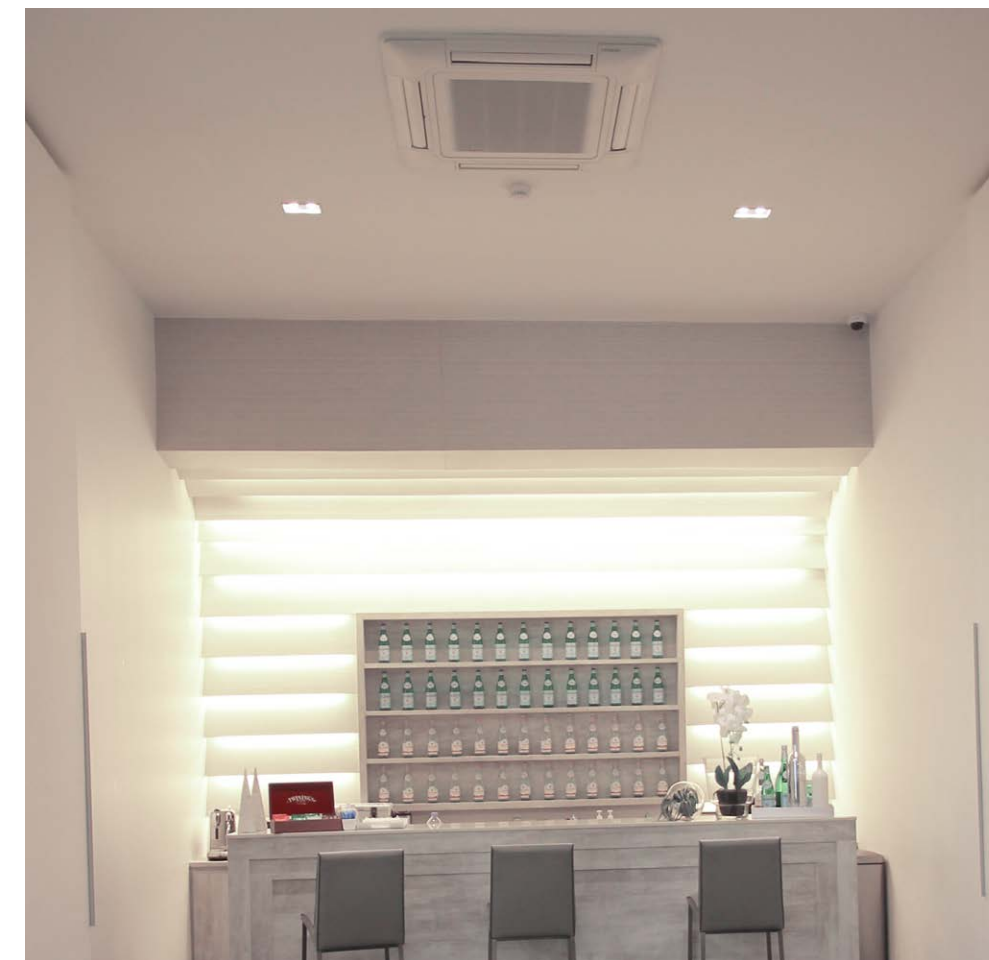
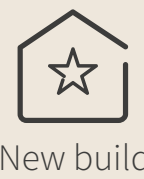


FLAGSHIP SHOWROOM
It's Lamborghini's largest showroom in South-East Asia.

HIGH CEILING CHALLENGE
For this venue with high ceilings and bright glass façade, Hitachi 4-way cassettes can cool spaces even when installed at 4,2m.

TOTAL CAPACITY: 110 HP
Distributed by: Entrust Intercorp

Bangkok, Thailand



2019



Entertainment

Gran Casino Corralejo



VRF



Ventilation

HITACHI

SPACE GAIN RETROFIT PROJECT

Before, a water-source chiller was installed indoor. Replacing it with Hitachi VRF enabled to place the outdoor unit outside and gain space and reduce indoor noise.

MINIMAL RETROFIT WORKS

With static pressure up to 220Pa, 5x Hitachi concealed ducted units could easily fit in the existing piping installation.

FRESH AIR AT THE RIGHT TEMPERATURE

4x Hitachi KPI units efficiently adjust the temperature of the incoming fresh air, by recovering heat from the exhaust air.

TOTAL CAPACITY: 140 kW

[Read the full case study](#)

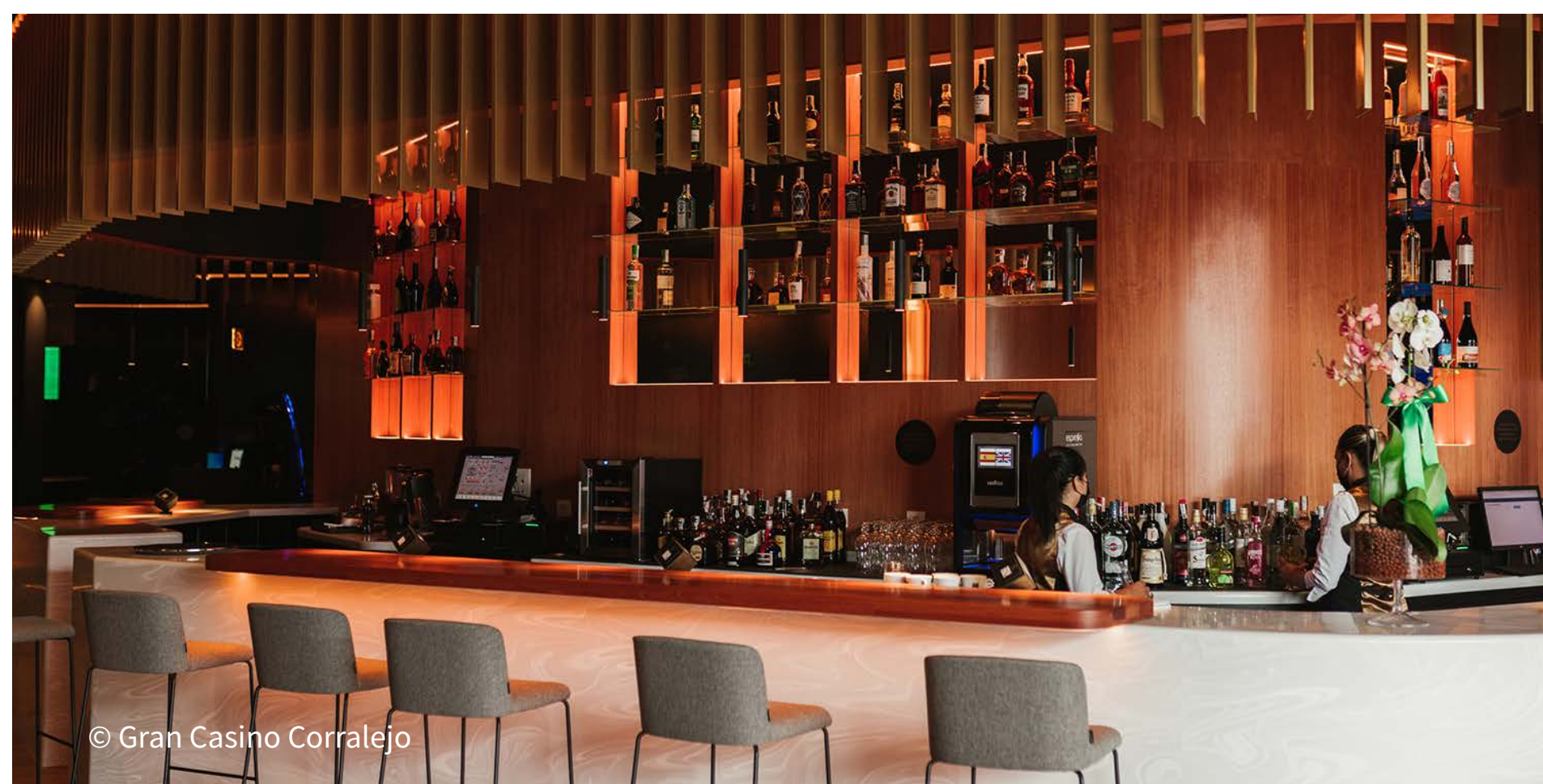
© Gran Casino Corralejo



Cooling & Heating



Retrofit



© Gran Casino Corralejo



© Gran Casino Corralejo

Las Palmas,
Canary Islands, Spain



2021



Entertainment

The Caledonian Club



Chiller

HITACHI



CONSIDERED TO BE ONE OF THE FRIENDLIEST CLUBS IN LONDON

Its location and facilities make it an ideal choice for weddings, meetings, and glamorous private functions. The Caledonian Club membership is open to Scots or those with a close association with Scotland community.

HITACHI CHILLER FOR A VERY BUSY BURNS SEASON

Hitachi RCME-60AH2 Samurai air cooled screw chiller was installed in replacement of a problematic chiller to cool down the kitchen areas and function rooms across 4 floors.

COMPACT SIZE & MINIMAL RETROFIT WORKS

- The Samurai chiller was the only 'off the shelf' chiller that would fit into the limited space available on the Club's rooftop.
- The existing air handling units from the previous installation have been retained.

TOTAL CAPACITY: 150KW

Distributed by : [Voltix Services LTD](#)

[Read the full case study](#)

London, United Kingdom



2022



Cooling



Retrofit



“The positive feedback from our clients and members has been overwhelming, and we couldn't be happier with Hitachi chiller's results”

The Caledonian Club team



Entertainment

Fernwood Botanical Garden: Sims Education Center



VRF

HITACHI



©Fernwood Botanical Garden



©Fernwood Botanical Garden



©Fernwood Botanical Garden

A PLACE WHERE PEOPLE, PLANTS, AND NATURE COME TOGETHER

Fernwood offers many possibilities for learning and enrichment, including classes, workshops, lectures, concerts, trips, exhibits, and special events.

Hitachi's VRF System was the perfect solution to provide heating and cooling that is energy efficient, reliable, quiet, and allows for minimal disruption to the design aesthetic of the space for Fernwood Botanical Garden Sims Education Center.

THE BEST SOLUTION TO MEET OUR STAKEHOLDER'S REQUIREMENTS:

- **Low-Ambient Heating** — Provide an HVAC solution that can withstand the extremely cold winter temperatures of the area.
- **Maintain Visual Aesthetics** — Work within the design constraints to allow for maximum viewing.
- **Single-Phase Power** — Utilize existing single-phase power.

TOTAL CAPACITY: 24 tons

[Read the full case study](#)

Michigan, USA



2018



Cooling & Heating



New build



©Fernwood Botanical Garden



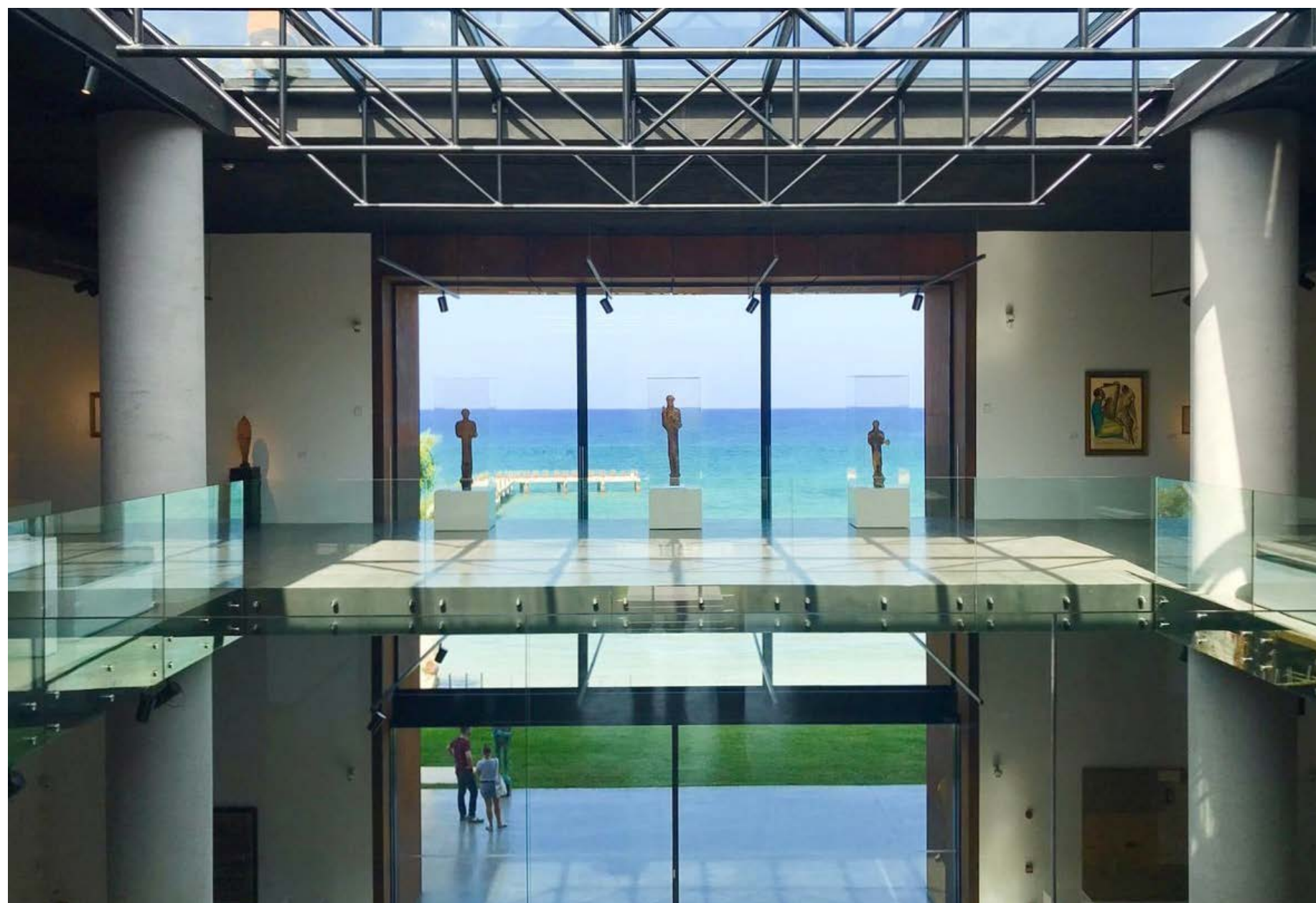
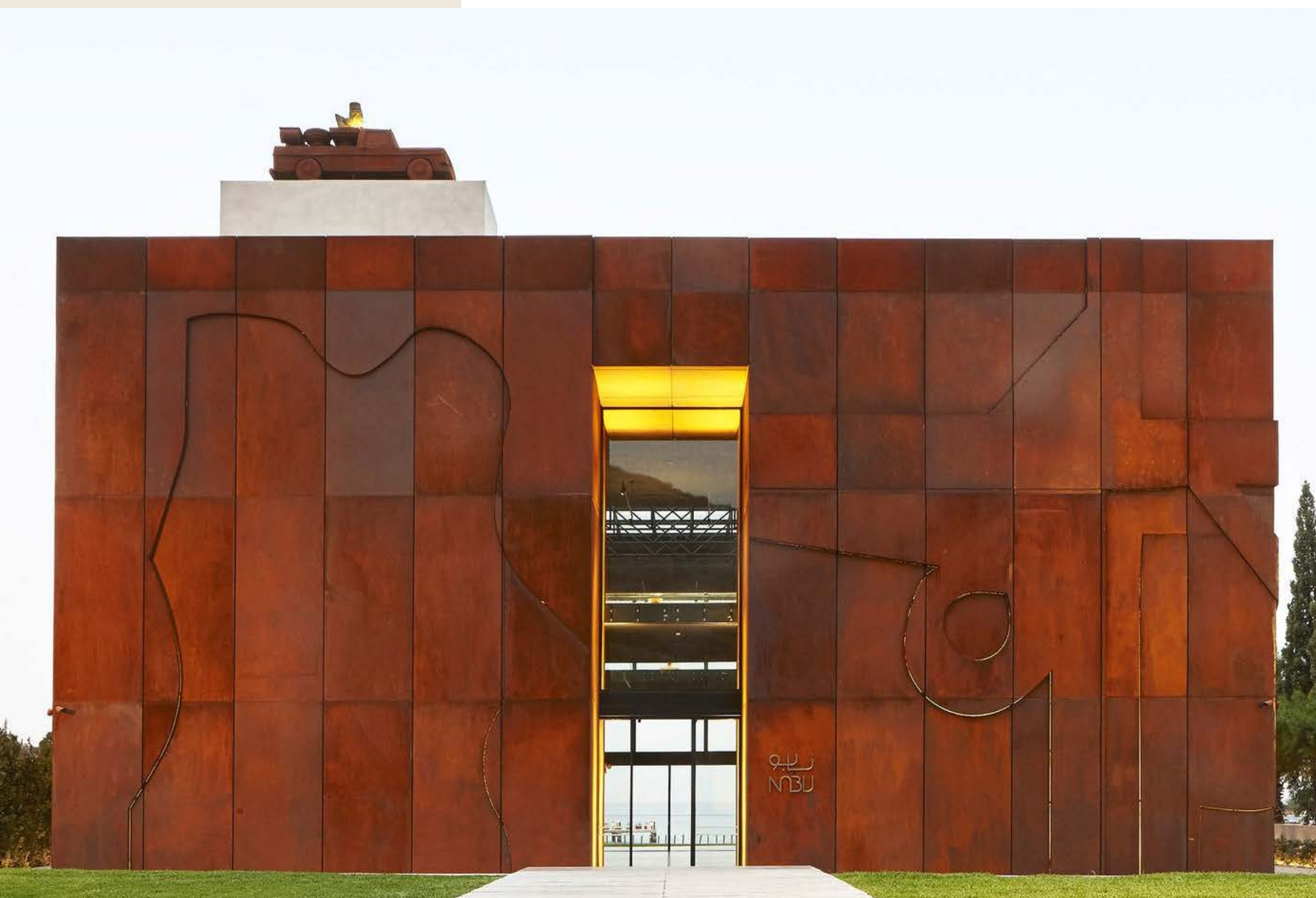
Entertainment

Nabu Museum



VRF

HITACHI



SHOWCASING THE BEST OF ANTIQUE AND MODERN ART OF THE LEBANON AND NEIGHBORING COUNTRIES

Overlooking the Mediterranean from the edge of a beach in the village of El-Heri, the Nabu Museum was born from its founders' vision to promote the rich cultural history of this region.

Facing a constant high ambient humidity in this area of Lebanon, not only temperature but also humidity control is critical to preserve the art collections' integrity. Hitachi VRF system was expected to ensure a constant air at 20 °c and dehumidify the air to 50% levels.

RELIABILITY OF THE EQUIPMENT AND ENERGY EFFICIENCY, TO SAVE COSTS AND REDUCE CO2-EQ EMISSIONS

To preserve indoor air quality for visitors, a Hitachi DX-Kit was installed, for the VRF system to cool/heat fresh air intake of air handling units installed inside the museum.

TOTAL CAPACITY: 117 HP

Distributed by: [Khater](#)

[Read the full case study](#)

El Heri, North Lebanon, Lebanon



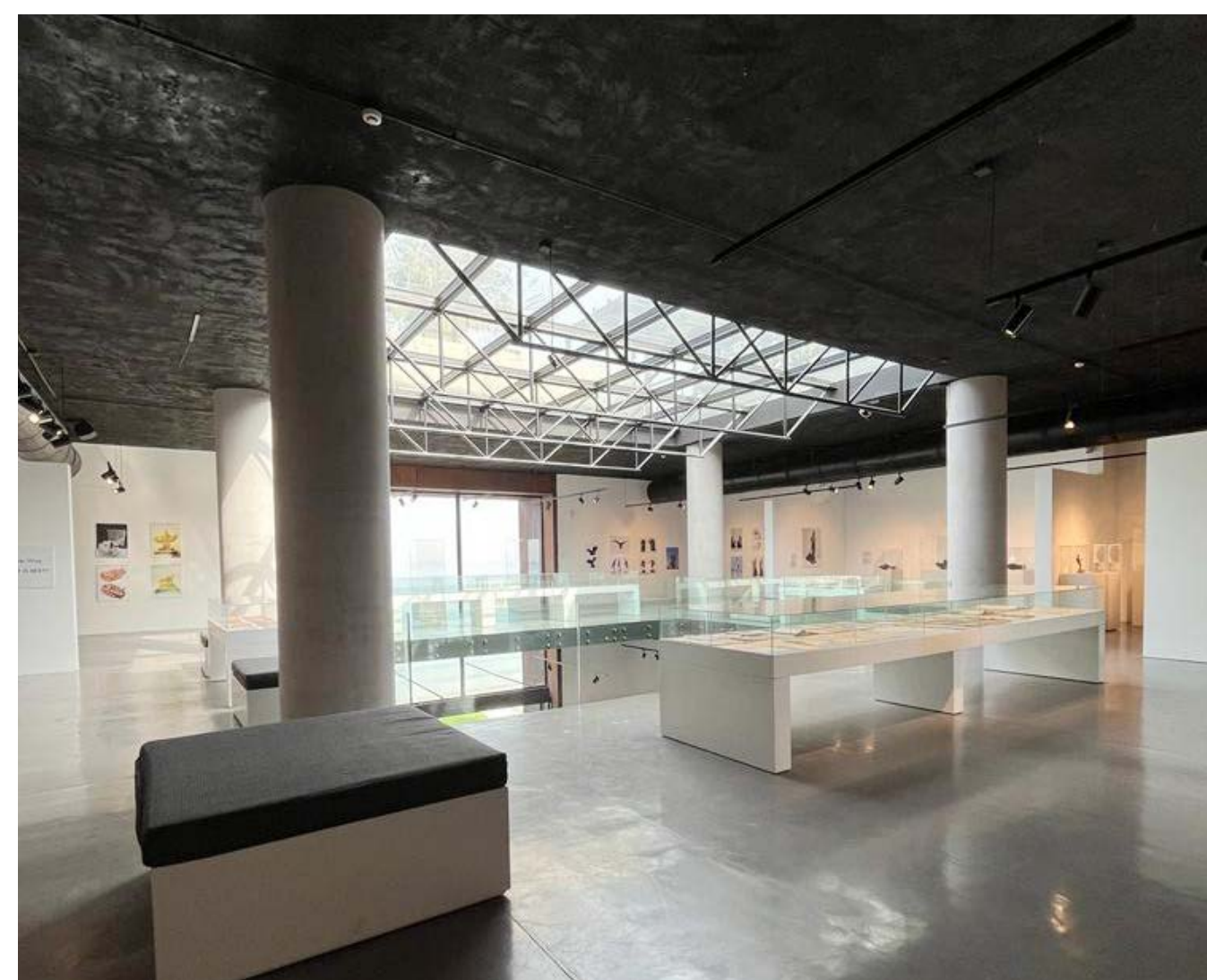
2018



Cooling



New build





Mixed Use
building

LABS Tower Nicosia



VRF

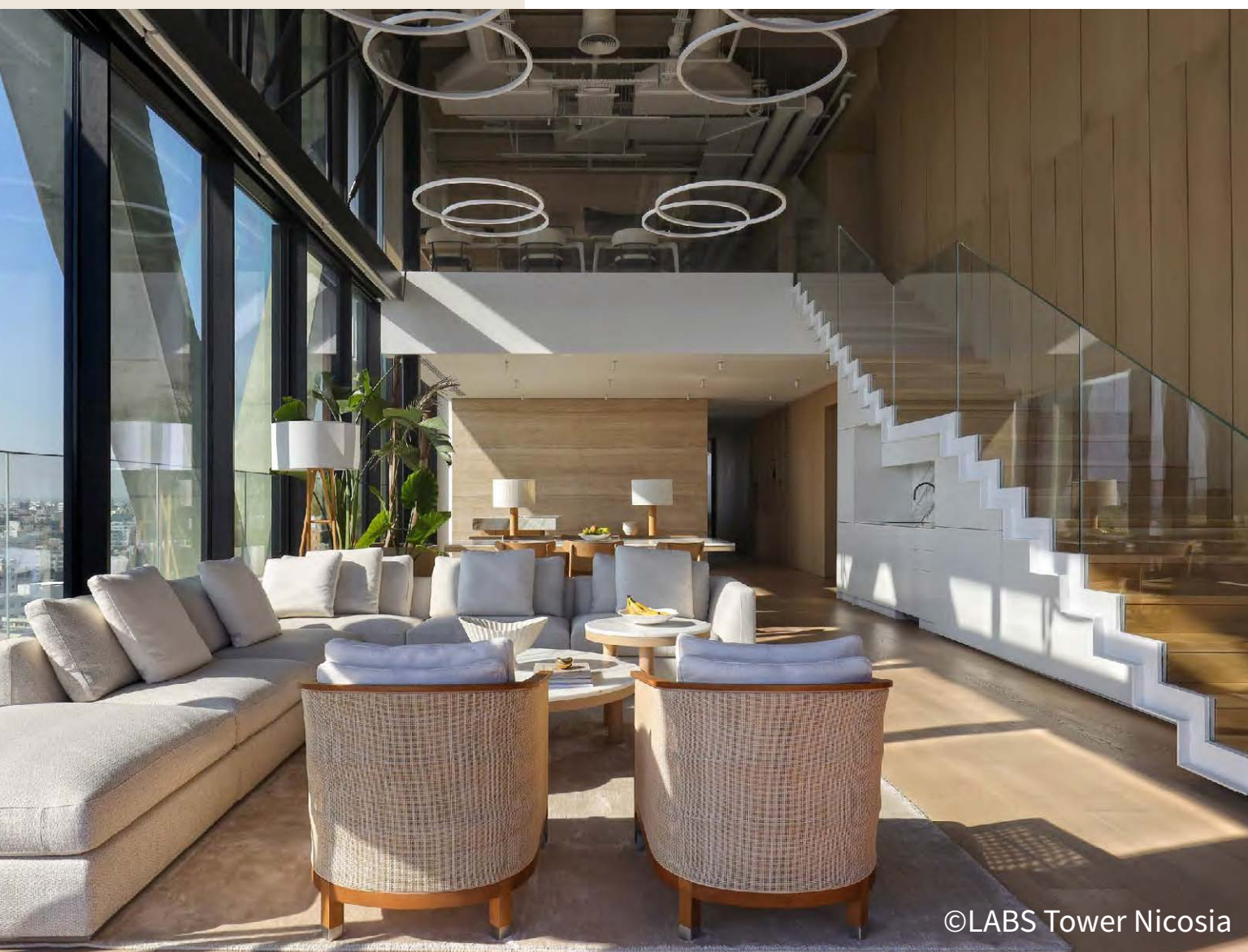


Ventilation



Commercial Split
Systems

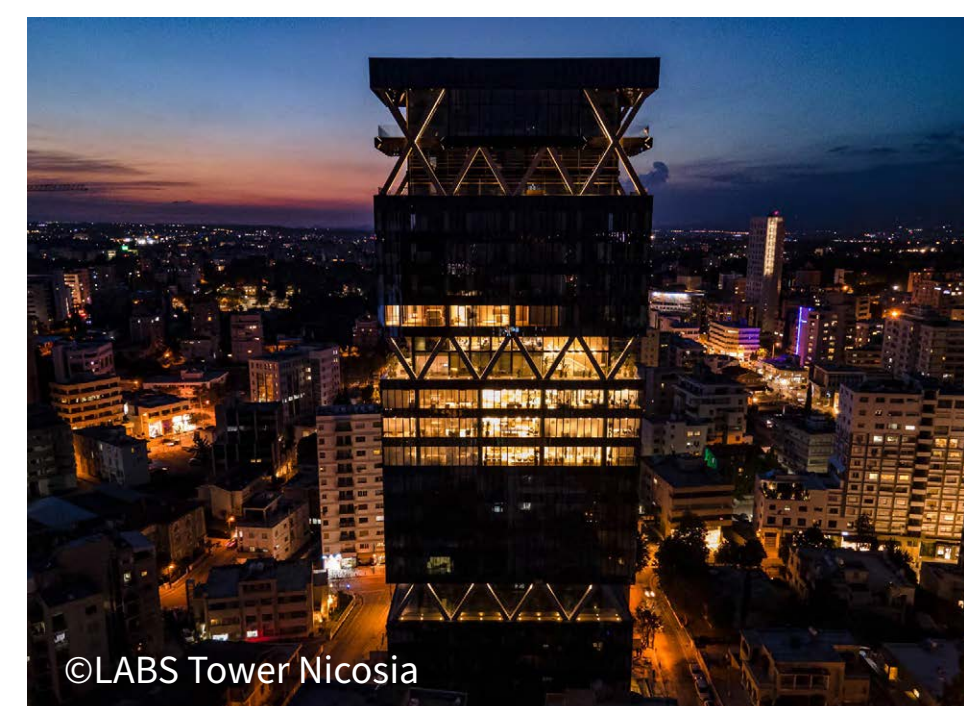
HITACHI



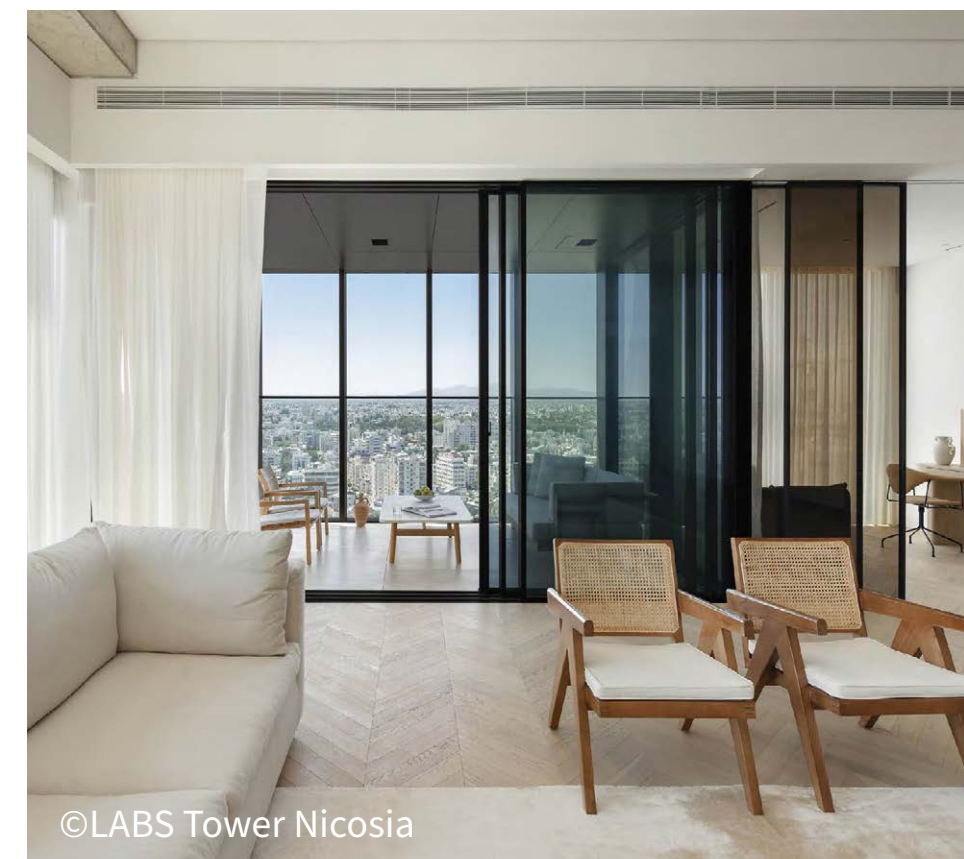
©LABS Tower Nicosia



©LABS Tower Nicosia



©LABS Tower Nicosia



©LABS Tower Nicosia

SPACES THAT GO BEYOND THE BASICS

LABS Tower offers spaces for coworking, leasing offices, dedicated meeting rooms and versatile event venues to drive productivity and progress in 22 floors of height. Offices, gym, cafeteria and private apartments are all scattered across the building.

40 DEGREES CELSIUS AND ABOVE

Within a Mediterranean weather and a glass surrounded building, an efficient Air Conditioning System was required to deliver high performance, leading to a direct saving in CO2 emissions and low costs.

HITACHI VRF HVAC BENEFITS

Energy Efficiency - Quiet Operation - Heat and Cool Simultaneously - Modern Controls - Less Downtime - Requires Less Space.

The ideal solution for energy efficiency and the answer to the challenge of Commercial and Residential renewable heating technologies.

TOTAL CAPACITY: 384HP

Distributor: [J. K. Vavlitis Ltd](#)

Nicosia, Cyprus



2022



Cooling & Heating



Domestic hot water



New build



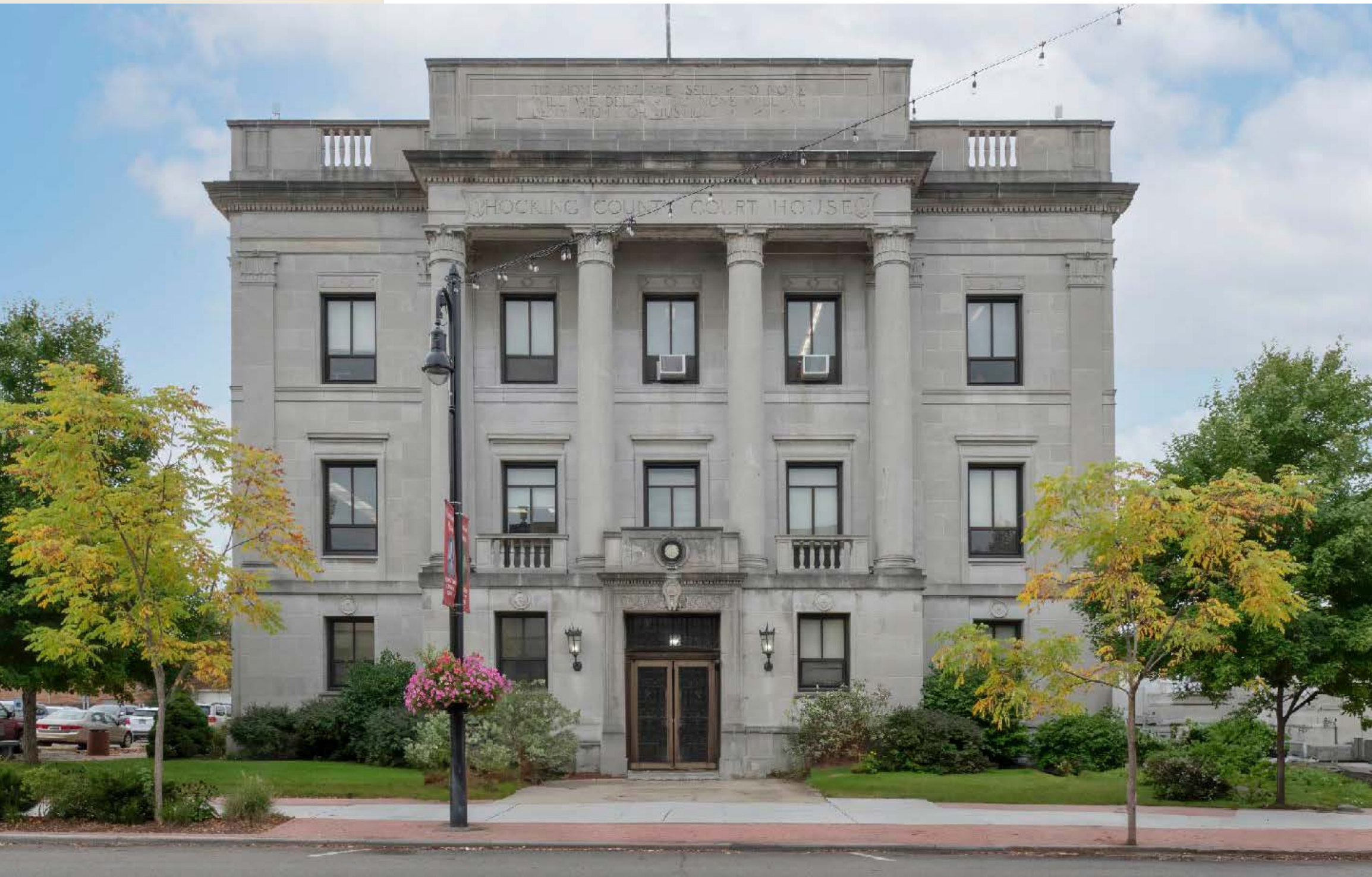
©LABS Tower Nicosia

“Hitachi VRF systems were chosen for their relatively small carbon footprint and good performance and very good efficiencies in both heating and cooling”

Frank Stavrou, Chief Operating Officer LABS Tower

[Read the full case study](#)

Hocking County Courthouse



100-YEAR OLD COURTHOUSE BUILDING SUFFERS FROM POOR TEMPERATURE CONTROL

Listed in the National Register of Historic Places, the building has served as Hocking County Courthouse for a century. As the 100 anniversary of the building was approaching, the decision was made to retrofit the HVAC system and finally bring modern comfort inside the Courthouse.

HITACHI VRF PROVIDED THE SOLUTION DUE TO ITS GREAT FLEXIBILITY AS WELL AS THE HEAT RECOVERY SYSTEM

The client preferred a centralized cooling and heating system that would be easier to maintain than the previous equipment.

In total, 3 Hitachi VRF units were installed on the roof and ground floor, topped with snow kits for winter. Inside the building, 62 indoor units and 8 heat recovery changeover boxes were installed.

TOTAL CAPACITY: 64 tons
Distributor by: Donwil Company
Contractor/Installer: Campbell Mechanical Service, Inc.
HVAC Consultant: 2B Engineering
Property Management: ABM building & energy solutions

Logan, Ohio, USA



2023

“The new system now lets us keep each office at consistent temperatures. Each office can control their own temperature range but we can also control all rooms from a master control if needed.”

Mark Stout,
IT Director – Hocking County

[Read the full case study](#)





Public building

Camden Council



Chiller

HITACHI



© Hufton + Crow for Bennetts Associates



© Hufton + Crow for Bennetts Associates

ONE OF THE GREENEST PUBLIC BUILDINGS IN THE UK

- Achieved BREEAM 'Outstanding' sustainability rating of 97.6% (2016)
- Construction News Awards – Sustainable Project of the Year (2015)
- Prime Minister's Better Public Building Award (2015)

MODULAR CHILLER FOR MORE GRANULAR CONTROL

High efficiency modular screw chiller RCME, 14 units.

TOTAL CAPACITY: 840 HP

Architects: *Bennetts Associates*

London, UK



2014



Cooling



New build



Bangladesh Bhavan at Visva Bharati University



HITACHI



BANGLADESH GOVERNMENT AND THE VISVA BHARATI, SANTINIKETA, CELEBRATE THE CULTURAL TIES BETWEEN INDIA AND BANGLADESH

At over 44,000sq.ft, the two-storey building includes a 450 seat auditorium, museum, a library with 6,000 books, a research center, two seminar halls and a cafeteria.

REQUIRED POWERFUL AIR CONDITIONING WITH LOW NOISE LEVELS

SET FREE Kyosho Series was chosen to cool down the large air volumes housed in the building.

- Full comfort even at high temperature.
- Quiet operation ideal for conference and library atmospheres.
- Fresh air circulation maintaining a healthy environment.
- A consistent indoor temperature of 22°C achieved for the building inauguration.

TOTAL CAPACITY: 300 HP

Santiniketan, India



2018



Cooling



New build

“Very happy to see and feel the performance of the entire project, especially the air-conditioning and sound system.”

Ms. Mamata Banerjee,
Chief Minister of West Bengal

[Read the full case study](#)





Commercial Multi-tenant

Commercial building



VRF

HITACHI



CARRYING HISTORY INTO THE PRESENT WITH A COMPACT SOLUTION

This new home to several offices and retail outlets was built at the end of the 19th century. When the time to replace the existing HVAC installation, care and preservation of the architecture was integral.

SET FREE SYSTEM ADDRESSED ALL STAKEHOLDER REQUIREMENTS

- Compact units fitting inside the building's attic
- Reduction of noise emissions to the neighborhood complying per local regulations
- Hitachi VRF centralized monitoring solution.

TOTAL CAPACITY: 116 HP

Lyon, France



2018



Cooling & Heating



Retrofit

“The compact design and high performance of the SET FREE system was a key advantage for us.”

*Mr Philippe RODET BARBANEL,
Engineering Consulting*

[Read the full case study](#)





Offices

DTR_studio



Commercial
Split Systems

HITACHI



AN IDEAL PLAYGROUND FOR THE DTR_STUDIO ARCHITECTS TO EXPRESS THEIR DESIGN TALENT

This house was originally built in the 1960's and has gone through multiple remodels over time, making the indoor space inconsistent and cluttered. To address these issues, the house had a complete remodeling to remove the inside walls and convert it into a spacious working studio.

Granada is a city in Southern Spain with an extreme climate – intense summers and some cold winter days under 0 °C.

ARCHITECTS TRUSTED HITACHI TO PROVIDE A RELIABLE COOLING AND HEATING SOLUTION FOR THE NEW OFFICE'S WORKSPACE

For the upper floor work area, the balcony was fitted with flexible wooden blinds to protect from direct sunlight during the summer, so a new air conditioning system was required to maintain a comfortable temperature.

PRIMARY ducted unit ensures a pleasant temperature in the workspace even in summer heat.

- Great performance that meets the local climate specifications of providing reliable cooling in up to 42 °C ambient conditions and heating down to -10 °C ambient.

[Read the full case study](#)

Granada, Spain



2021



Cooling & Heating



Retrofit



© Cris Beltran



© Cris Beltran



Healthcare

Health Center (Maison de Santé)



VRF



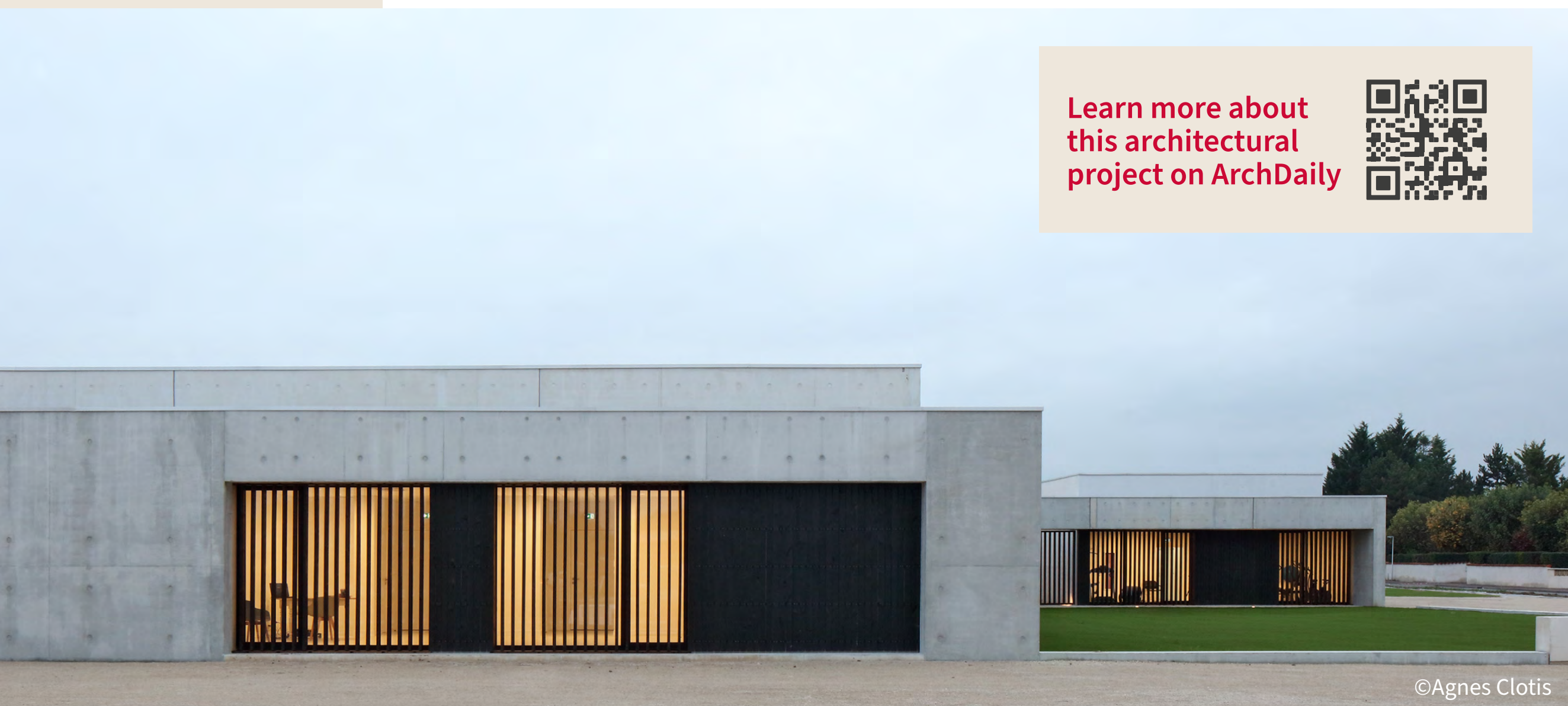
Mini-splits



air-to-water
heat pumps

HITACHI

Learn more about
this architectural
project on ArchDaily



©Agnes Clotis



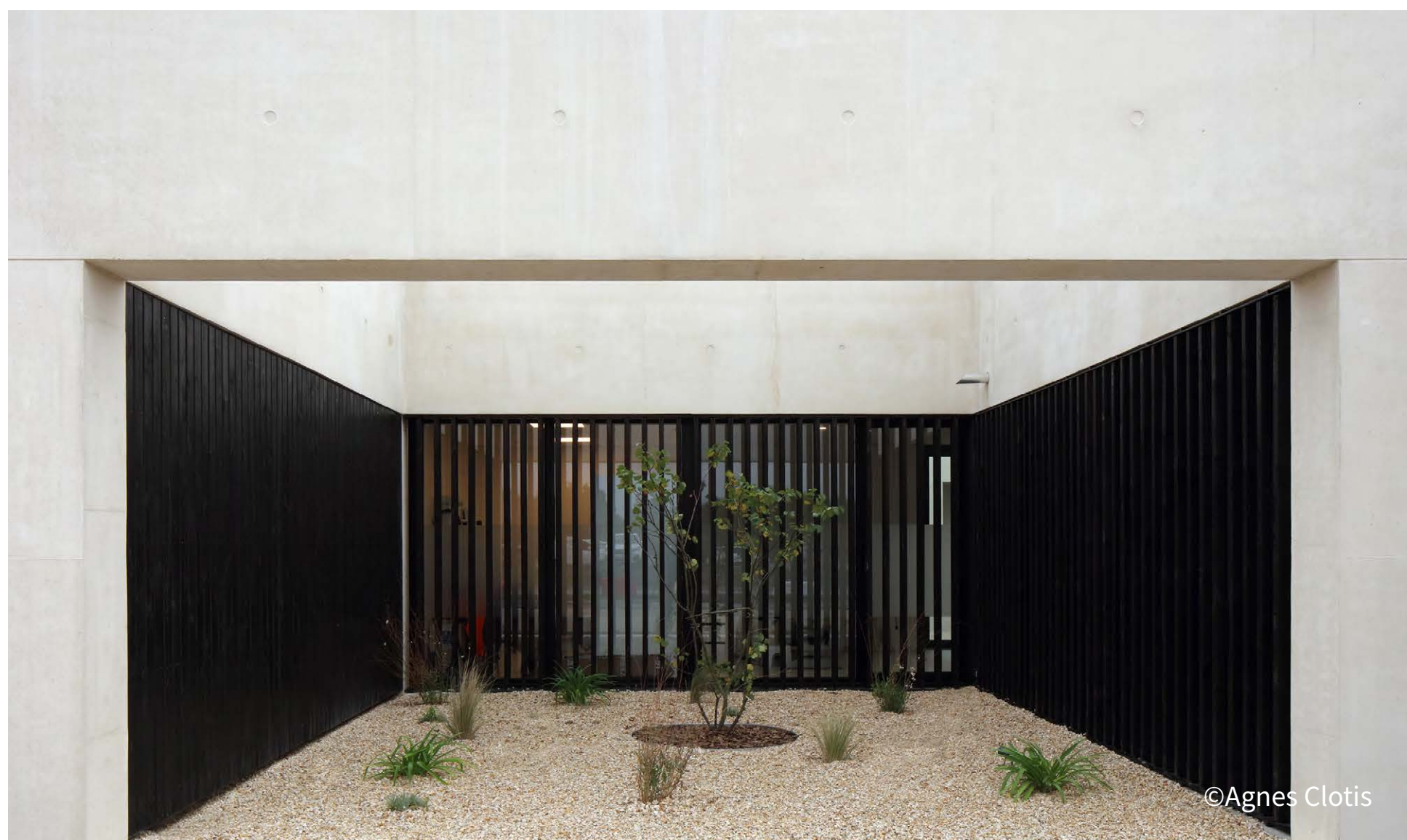
Cooling & Heating



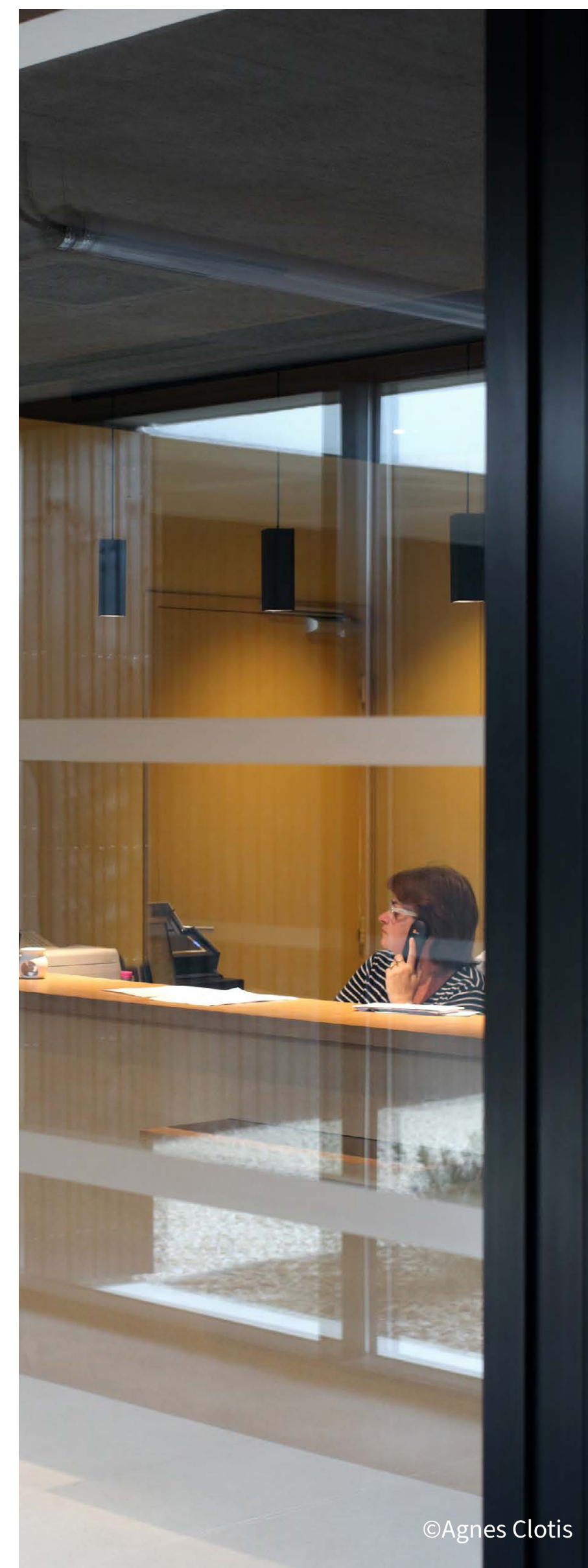
Domestic hot water



New build



©Agnes Clotis



©Agnes Clotis

MULTI-DISCIPLINARY HEALTH CENTER

Several health professionals offer consultations in the center, offering a multitude of specialties, from general practitioners to dentists and psychiatrists.

4 MEDICAL CENTERS IN 1

A gallery is the backbone of the facility, anchoring 4 different blocks. The central garden and the use of durable and natural building materials provide a sense of timelessness and authenticity.

COMBINATION OF COOLING & HEATING SYSTEMS FOR ENERGY EFFICIENCY EXCELLENCE

- Small Hitachi VRF Utopia systems with black 4-way mini cassettes deliver cooling and heating to the medical and administration rooms of the building.

- In addition, a small multi-split was installed in the small lodging studio for doctors.

- Low-carbon heating is ensured in the corridors by air-to-water Yutaki heat pumps. Domestic hot water is supplied by low-carbon Yutampo heat pump water heater.

Architects: [6A6](#)

[Read the full case study](#)

Jarnac, France



2019



Healthcare

Delta University Hospital



VRF

HITACHI



DELTA UNIVERSITY FOR SCIENCE AND TECHNOLOGY OPENED A BRAND-NEW GENERAL HOSPITAL IN 2023 WITH 91 ROOMS

Located in the Egyptian Delta region, 4km from the southern Mediterranean seaside, the new hospital requires cooling 24hours, 365 days a year, due to hot weather and critical temperature control requirements for patient treatments.

SET FREE SIGMA AND SIDESMART UNITS WERE PROVIDED WITH AN ANTI-CORROSION TREATMENT FOR BETTER DURABILITY OF THE EQUIPMENT

A total of 14 SET FREE Sigma units were installed on the building rooftop, combined with 46 Ducted and Ducted Compact concealed indoor units.

For the operating rooms' air handling units (6 AHU of 54HP each), powerful cooling and ventilation was necessary. SideSmart offers very high energy efficiency levels (COP up to 4.27*) with modules combined to reach up to 386 HP capacity.

TOTAL CAPACITY: 612 HP

Mansoura, Egypt



2023



Cooling



New build

"The client is very satisfied with the AC. It's very quiet and ensures pleasant cooling throughout the entire hospital."

Eratec team

[Read the full case study](#)





Pharmacy

Pharmacy Dei Viali



VRF

HITACHI



CRITICAL 24/7 TEMPERATURE CONTROL

Pharmacies require precise thermal control, not only for customer and staff comfort but to preserve product integrity. When certain medications are exposed to high temperatures they can degrade.

SILENT-ICONIC FOR BETTER INTERIOR

2x award-winning Silent-Iconic cassette panels were installed in the walk-in space. 2 other ducted units are installed in the staff-only areas. Utopia Prime outdoor units efficiently cool and heat the pharmacy.

TOTAL CAPACITY: 12 HP

[Read the full case study](#)



Cooling



Retrofit



Catania, Sicily, Italy



2021



School/university

Kensington International Kindergarten



HITACHI



AWARD-WINNING INTERNATIONAL KINDERGARTEN
designed to help develop young children with a British-style education, the school was recognized as Best international nursery of 2019 by the National Day Nurseries Association (NDNA).

FREE FORM ARCHITECTURE CONCEPT
Like an oasis in the urban jungle, the building consists of a large oval structure built around a green playground, connecting every room with nature.

HITACHI VRF SYSTEM TO KEEP THE KIDS COOL
With summer peaks reaching 43°C/109°F, building cooling is a must for children's safety. 5x SET FREE SIGMA system (cooling only) was installed on the roof, combined with a total of 81 indoor –ducted type and wall-mounted–units. A Central Station EX monitors all the air conditioning equipment.

TOTAL CAPACITY: 190 ton (2,293,000BTU/Hr)

Distributed by : ENTRUST INTERCORP CO.,LTD

[Read the full case study](#)

Bangkok, Thailand



2020



Cooling



New build



Learn more about
this architectural
project on ArchDaily





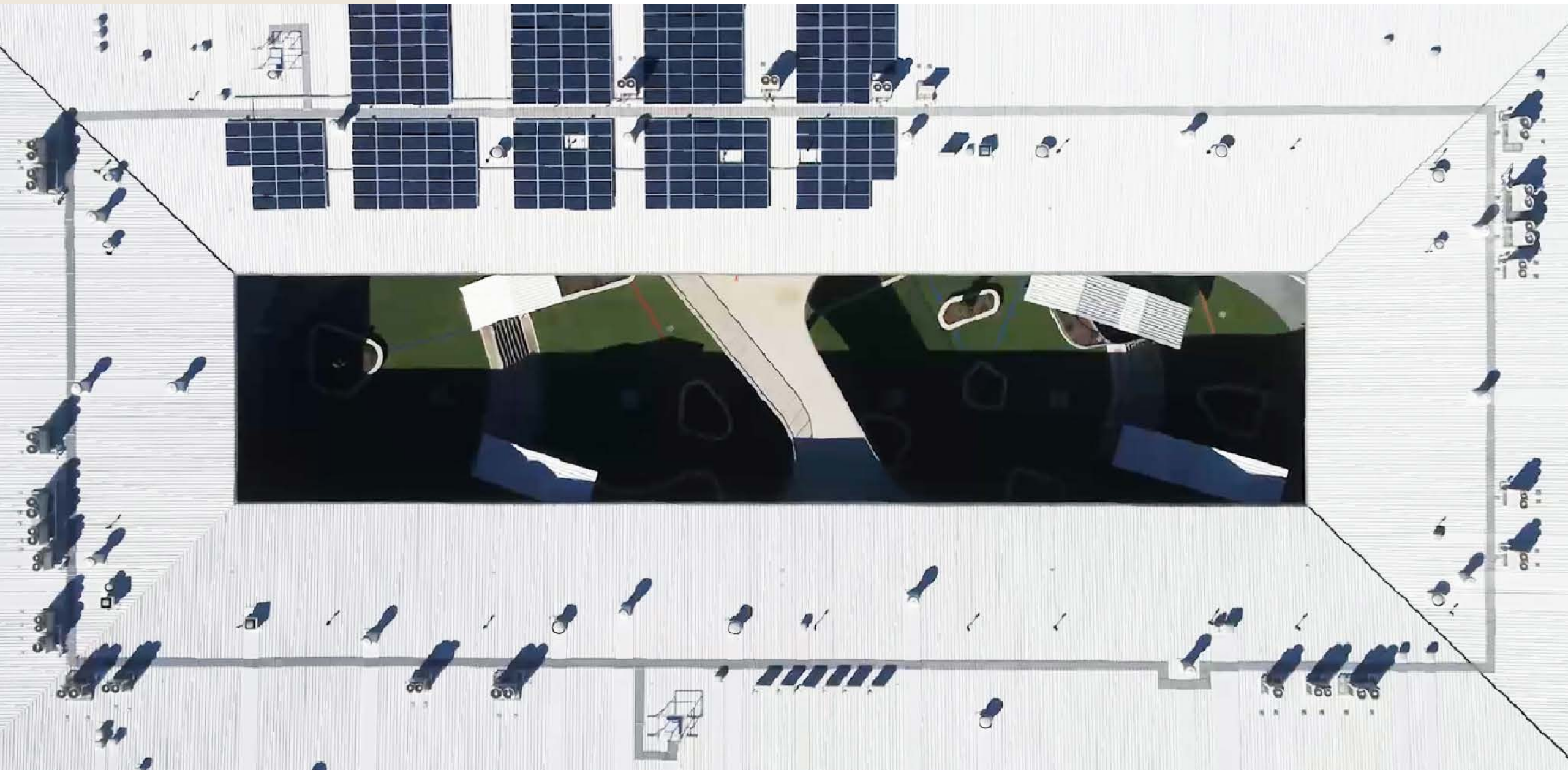
School/university

North Kellyville Public School



VRF

HITACHI



Watch the
video here:



A PURPOSE-BUILT LEARNING ENVIROMENT

North Kellyville Public School provides 40 brand new classrooms and learning spaces.

QUALIFIED FOR 'COOLER CLASSROOMS' PROGRAM

A local government initiative to subsidize complete reverse HVAC systems to local schools subjected to hot temperatures, ensuring a comfortable and healthy learning environment for students.

HITACHI VRF'S COMBINATION OF QUALITY

A total of 24 Hitachi Set Free Σ (Sigma) modular top-flow VRF units were designed, installed and commissioned to cool and heat all classrooms.

TOTAL CAPACITY: Cooling 1,359kW / Heating 1,536kW

Distributor: [Temperzone](#)

Contractor / Installer: [Fredon](#)

[Read the full case study](#)

Sydney, Australia



2019



Cooling & Heating



New build



"Hitachi VRF's combination of quality, technology and technical support made it the perfect choice for this project."

Jay Smith (Fredon Air)





Sports

James C. Kennedy Fitness Center at Emory Saint Joseph's Hospital



VRF

HITACHI



A PLACE WHERE HOSPITAL'S EMPLOYEES CAN RELAX & EXERCISE

Emory Saint Joseph's Hospital transformed the entire first floor of its medical center into an advanced fitness facility that required cooling and heating solution.

HEAT RECOVERY VRF PROVIDES ENERGY SAVINGS, RELIABILITY, AND COMFORT

The operating range of the Hitachi VRF system makes it a suitable choice to the local seasonal climate. Its high reputation and high energy efficiency made it a preferred choice, along with low noise requirements.

TOTAL CAPACITY: 12 tons

[Read the full case study](#)

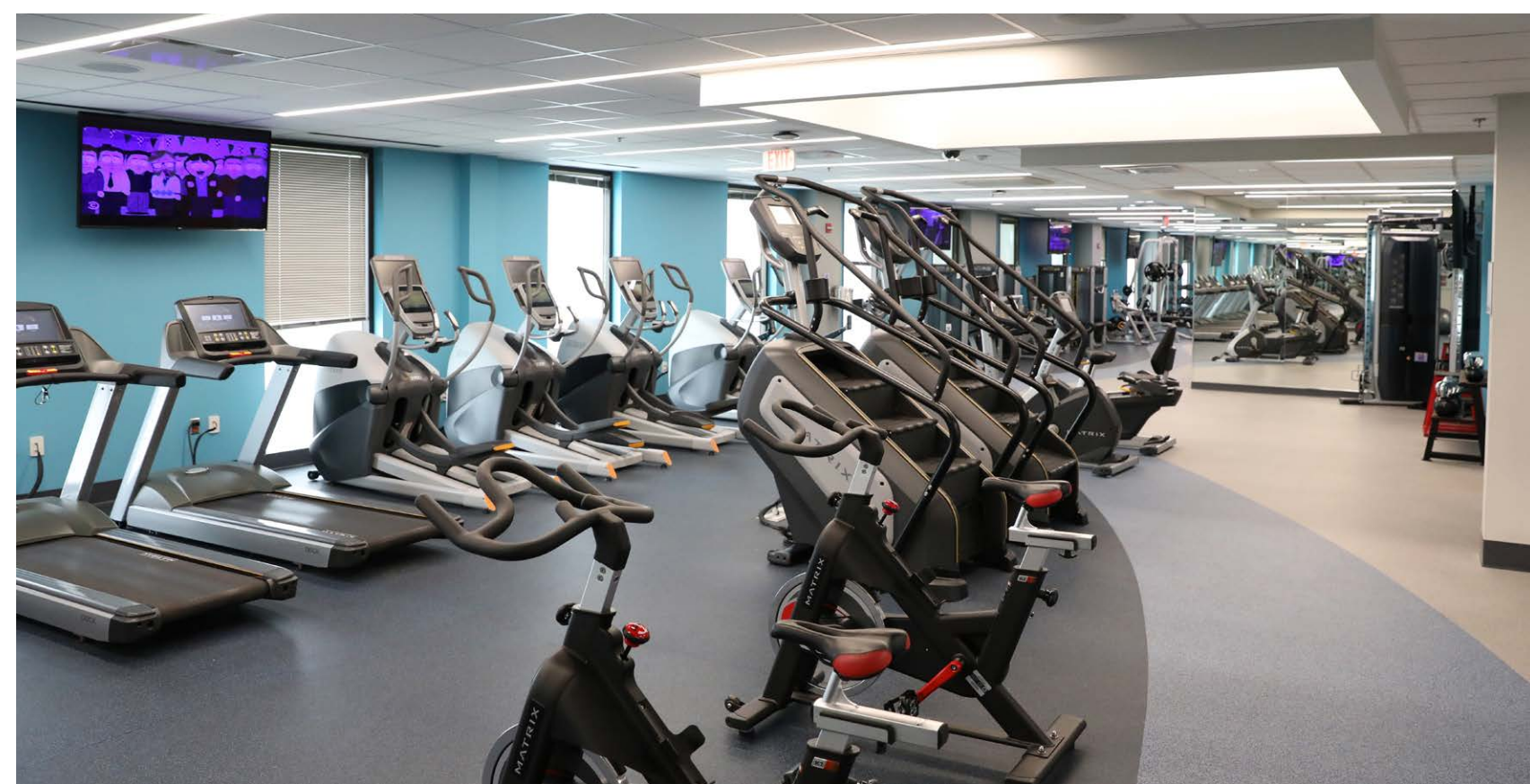
Atlanta, Georgia, USA



Cooling & Heating



Retrofit



2018



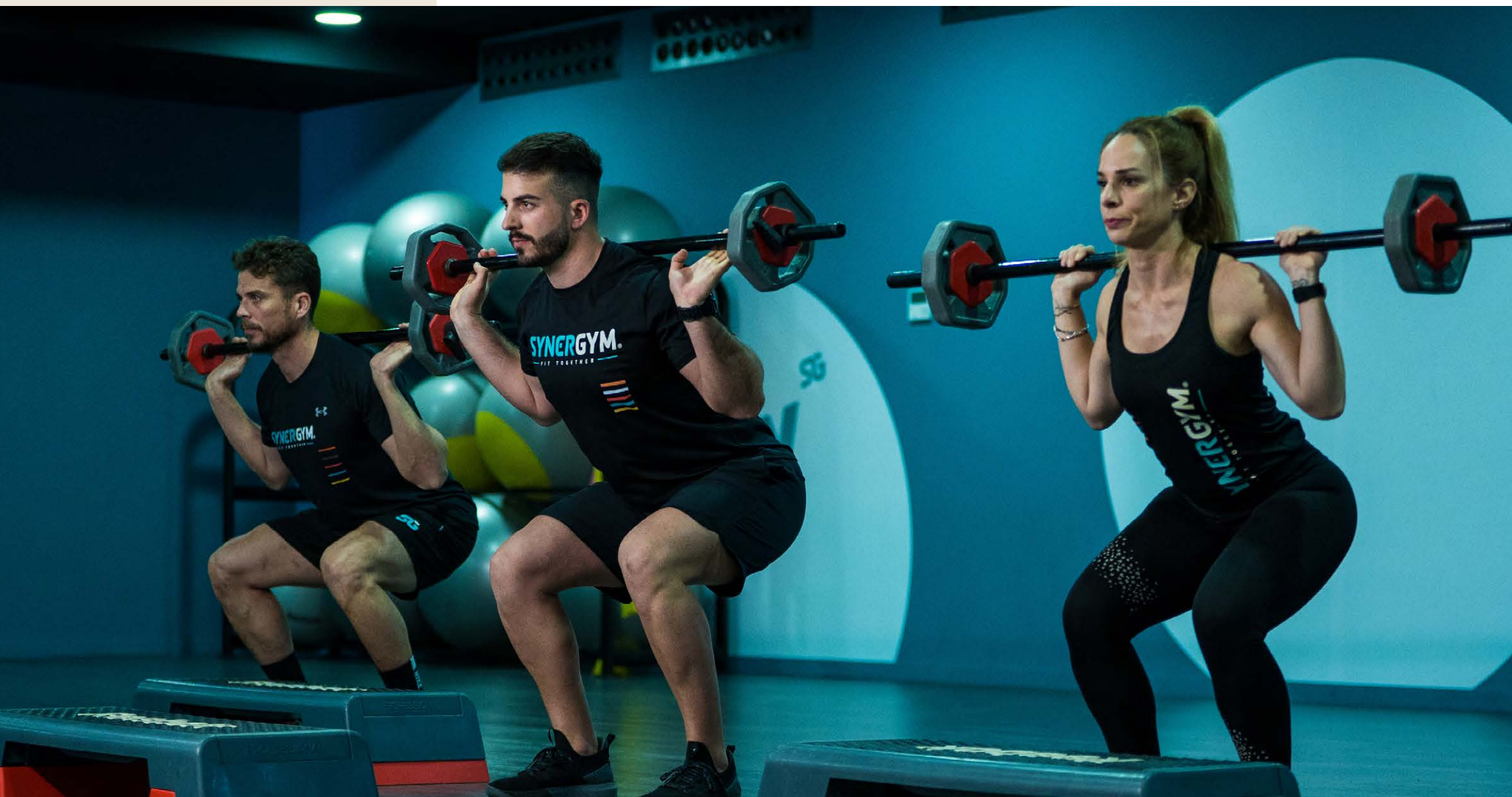
Sports

Synergym fitness center



VRF

HITACHI



OPTING FOR ULTIMATE ENERGY EFFICIENCY

Budget-friendly fitness center Synergym opted for super efficient Hitachi VRF solution to heat and cool their gym, saving energy costs and free of fossil fuels.

SPACE-SAVING COMBINATION OF CENTRIFUGAL & TOP-FLOW VRF

With limited space available on the rooftop, heat recovery SET FREE SIGMA (high efficiency series) was installed for simultaneous cooling & heating. Taking advantage of dropped ceiling at the gym's venue, additional 2 centrifugal VRF units were fitted inside.

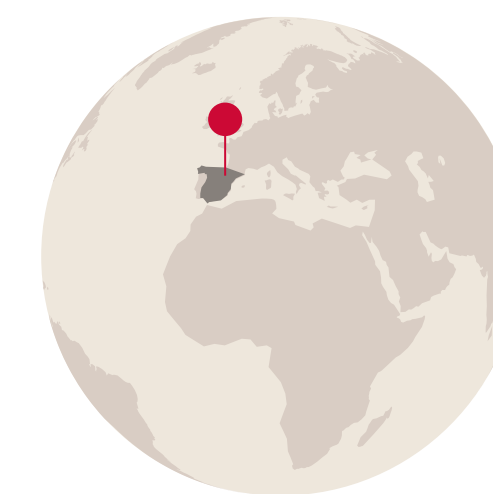
INDIVIDUAL ZONE COMFORT

The AC operation can be customized in each room, based on occupancy levels. It's particularly ideal for gyms as the fitness hall usually requires more powerful cooling than other rooms in the venue.

TOTAL CAPACITY: 34HP

[Read the full case study](#)

Logroño, Spain



2019



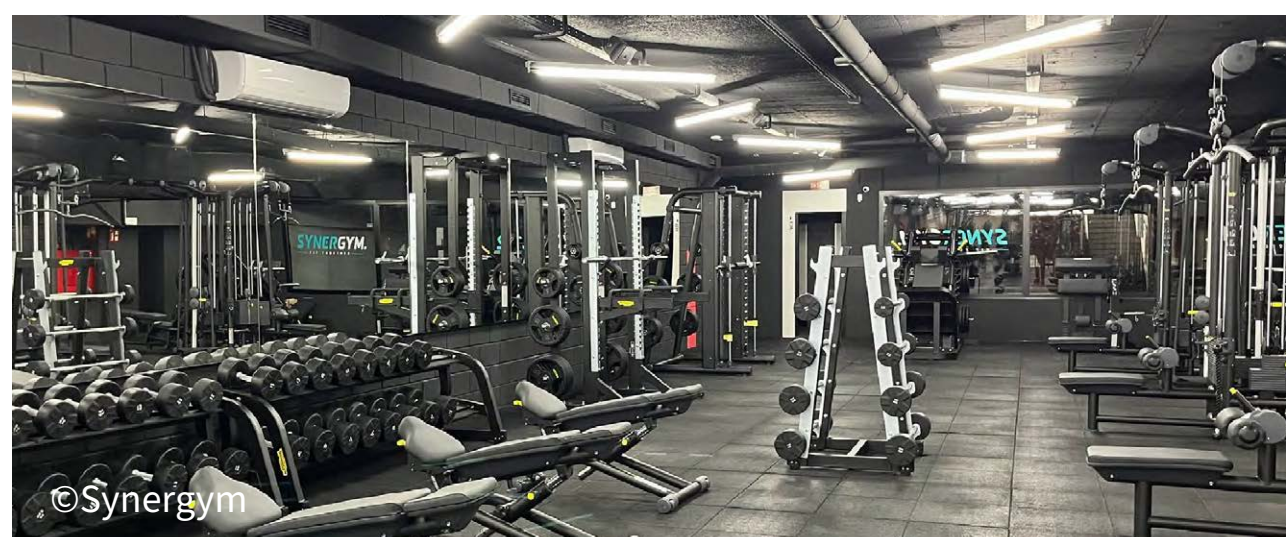
Cooling & Heating



Retrofit



©Synergym



©Synergym



©Synergym



Sports

Al-Madina International Stadium



VRF

HITACHI



IRAQ'S FIRST SOLAR STADIUM

The stadium has 32,000 seat capacity. Solar PV panels are installed all over the roof for renewable energy production and consumption.

VRF SPECIAL FOR HIGH-AMBIENT TEMPERATURES

The Hitachi VRF system installed is designed for T3 climate class conditions, with cooling operation at up to 54°C.

TOTAL CAPACITY: 556 HP

Distributed by: Al Daim Group

Sadr, Iraq



Cooling



New build



2019