



COMMERCIAL AIR CONDITIONERS

# REFERENCE PROJECTS



# Always ready for the Future

40

agencies in Italy

630

employees in Italy  
and abroad

75

countries we export to

50.000 m<sup>2</sup>

of plants in Feltre,  
Belluno - Italy

6

branches: Great Britain, Germany, Spain,  
Russia, UAE, India



For 30 years we have been offering solutions to ensure sustainable comfort and the well-being of people and the environment

In 30 years of working on the design, manufacturing and distribution of air conditioning and handling systems, combining high efficiency with minimal environmental impact, Clivet has developed solutions to ensure sustainable comfort and the well-being of people and the environment. Designing and developing year-round air conditioning solutions with innovative technologies are part of Clivet's DNA, which means the company has always been ready for the future.



# Clivet. Change things

2016

A Group Company of



2015

Clivet Live is born

FORTUNE GLOBAL 500

Midea Group #323 in 2018

35.794 \$M

Midea turnover

140

service centres



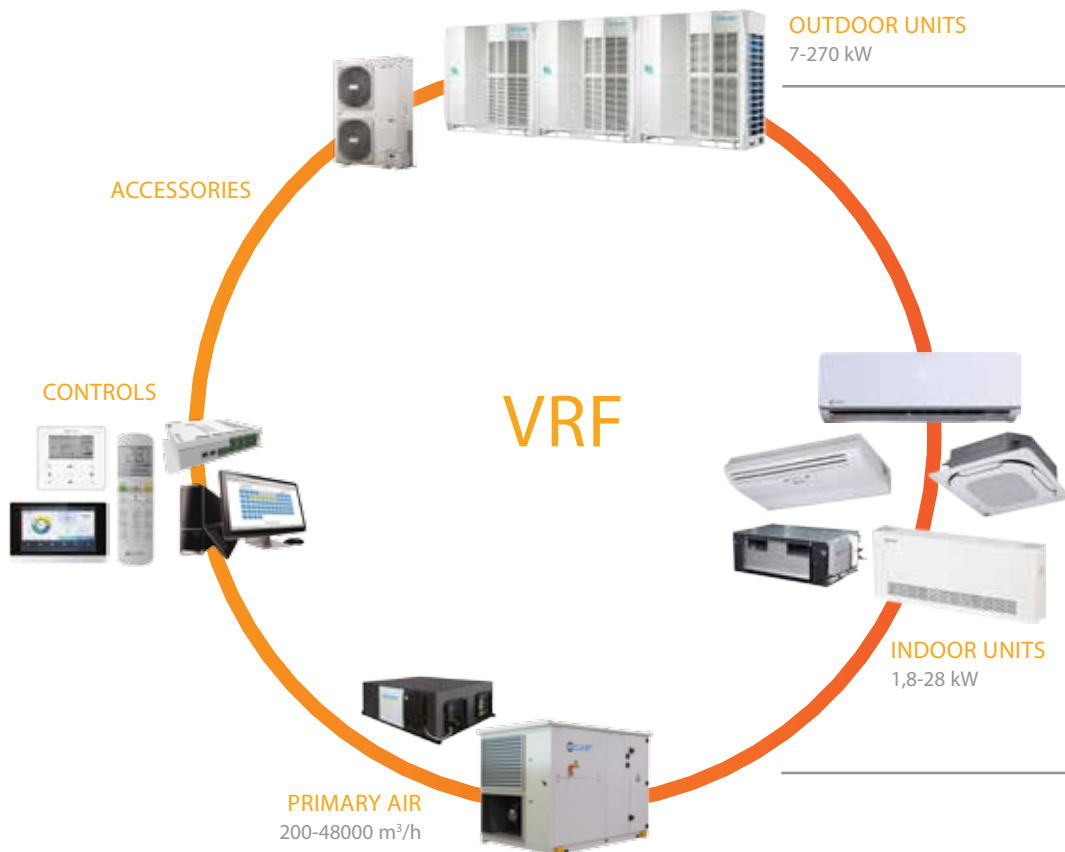
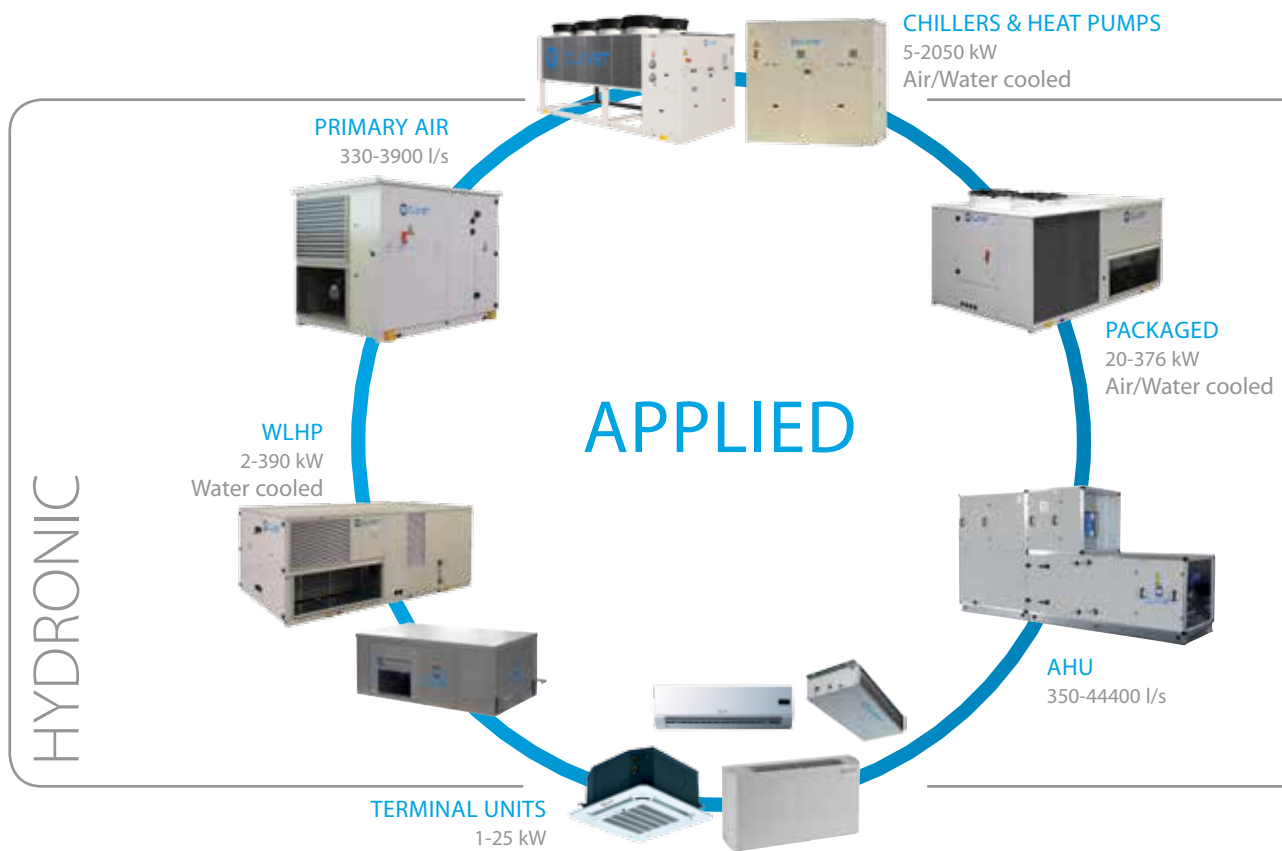
Our values  
in the residential,  
commercial and industrial  
sectors

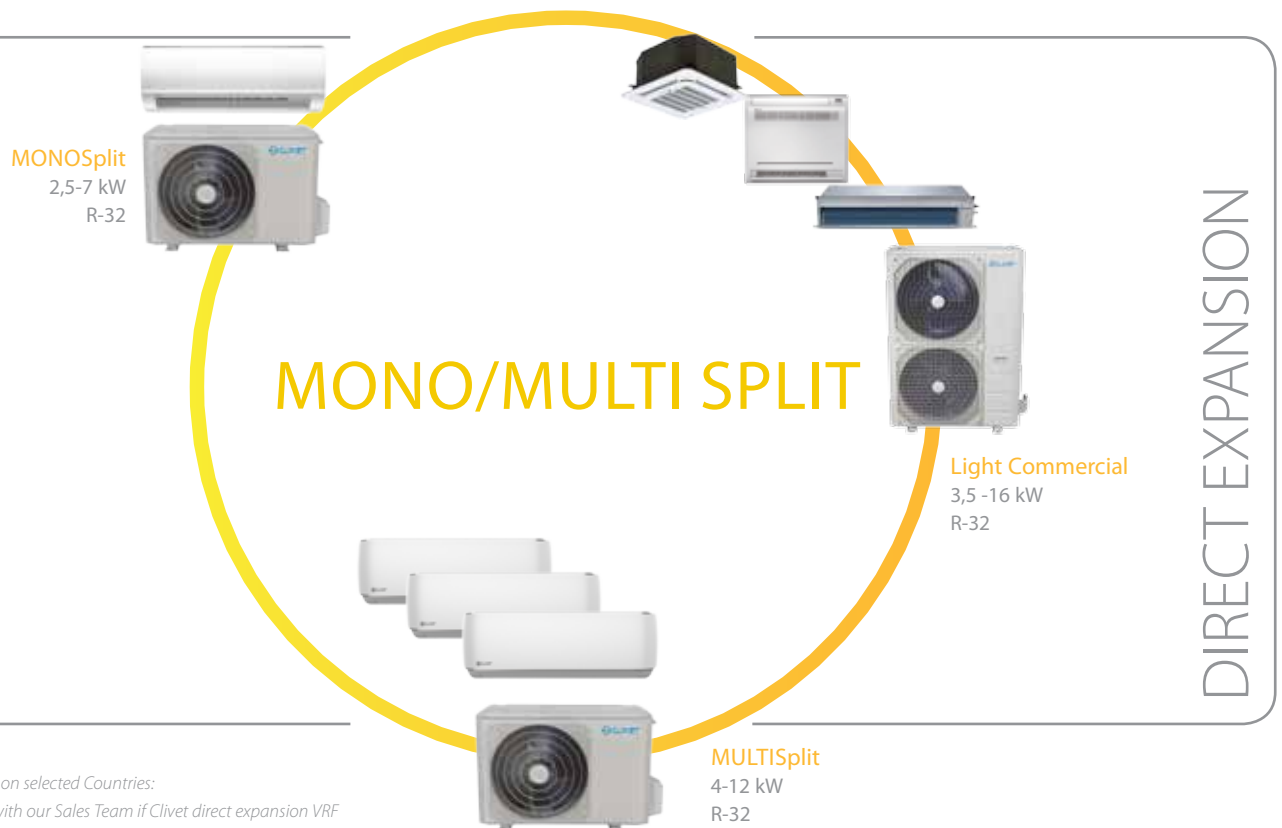
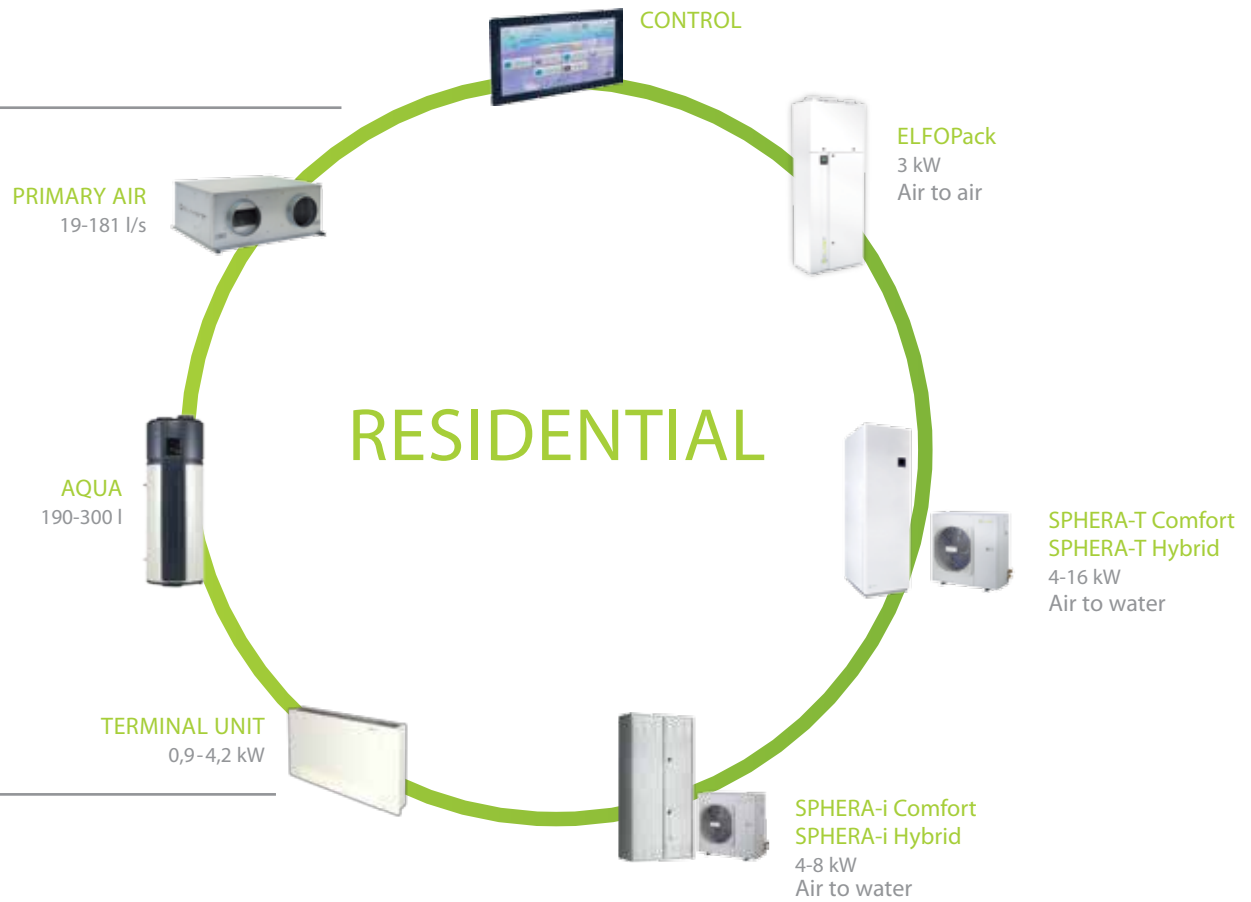
Increasing comfort, saving energy and providing customers with the best value for the entire life cycle of the system: these are the values that inspire our systems for the residential, services and industrial sectors.



# All technologies for a complete proposal

Heating, cooling, air renewal and domestic hot water production





Available only on selected Countries:  
please check with our Sales Team if Clivet direct expansion VRF  
and SPLIT Systems are available in your Country.









# REFERENCE PROJECTS SPORTS

/ 2018 Russia World Cup Stadiums

/ 2016 Rio Games Stadiums

/ 2014 FIFA World Cup Brazil Beira Rio Stadium

/ 2015 Youth Olympic Games

/ 2014 All-Africa Games Stadiums

/ 2017 African Cup of Nations

/ The 27th Southeast Asian Games Stadium

/ Russia Federation National Olympics Sports

/ Concrete Forest—Expo Milano 2015





1

## 2018 Russia World Cup Stadiums Luzhniki Stadium(Final Match)

📍 City: Moscow

📦 Products: VRF V5X



As the last of tendering processes wrapped up and the final announcement was made, Midea Commercial Air Conditioner became the biggest winner by supplying HVAC solutions for 7 out of 12 official stadiums. This is the second time that Midea as HVAC solution provider enters World Cup projects, the first time was in Brazil in 2014. The solutions provided at these venues will come as a combination of VRF, Water-cooled screw chillers and Fan coil units.



1

## 2018 Russia World Cup Stadiums Krestovsky Stadium

City: St. Petersburg

Product: Fan Coil Units



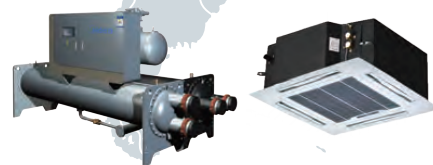
01 SPORTS



## 2018 Russia World Cup Stadiums Nizhny Novgorod Stadium

📍 City: Nizhny Novgorod

📦 Product: Water-cooled Screw Chiller; Fan Coil Units



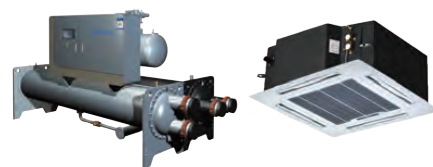


1

## 2018 Russia World Cup Stadiums Volgograd Arena

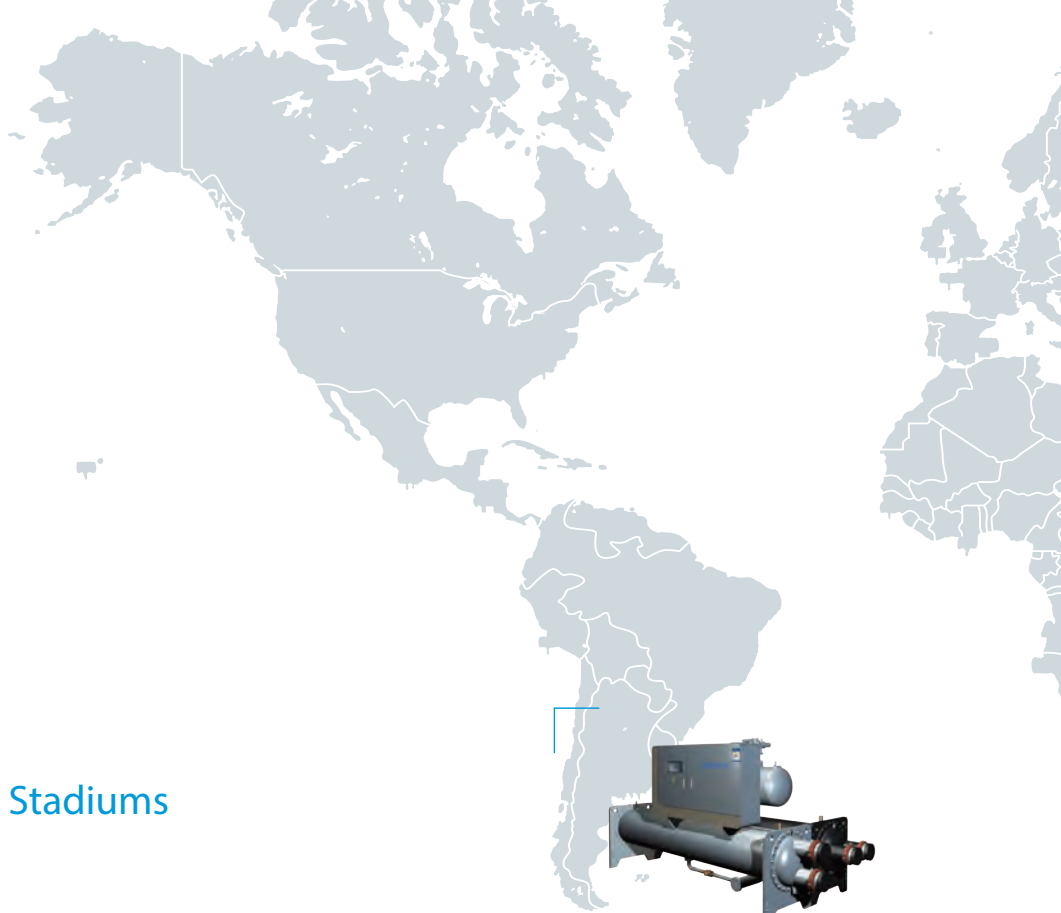
City: Volgograd

Product: Water-cooled Screw Chiller; Fan Coil Units



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## 2018 Russia World Cup Stadiums Cosmos Arena

📍 City: Samara

📦 Product: Water-cooled Screw Chiller







1

## 2018 Russia World Cup Stadiums Kaliningrad Stadium

📍 City: Kaliningrad

📦 Product: VRF V5X; Split Units



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1

## 2018 Russia World Cup Stadiums Central Stadium

📍 City: Yekaterinburg

📦 Product: VRF V5X; Fan Coil Units





1 Yekaterinburg

2

## 2016 Rio Games Stadiums

🕒 Country: Brazil

📍 City: Rio de Janeiro

🏠 Outdoor Units: V5 X series VRF, Mini VRF (Midea)/Chiller (Midea-Carrier)



In a prime showing of global prowess, Midea-Carrier JV has announced its winning sweep of the 142 competitions to supply climate control solutions to Brazil's new sporting stadiums in Barra and Deodoro Olympic Parks. Midea Carrier ABC JV won all the new venues in Barra Zone and Deodoro Olympic Parks. The solutions provided at these venues will come as a combination of VRF products and large tonnage chiller units.



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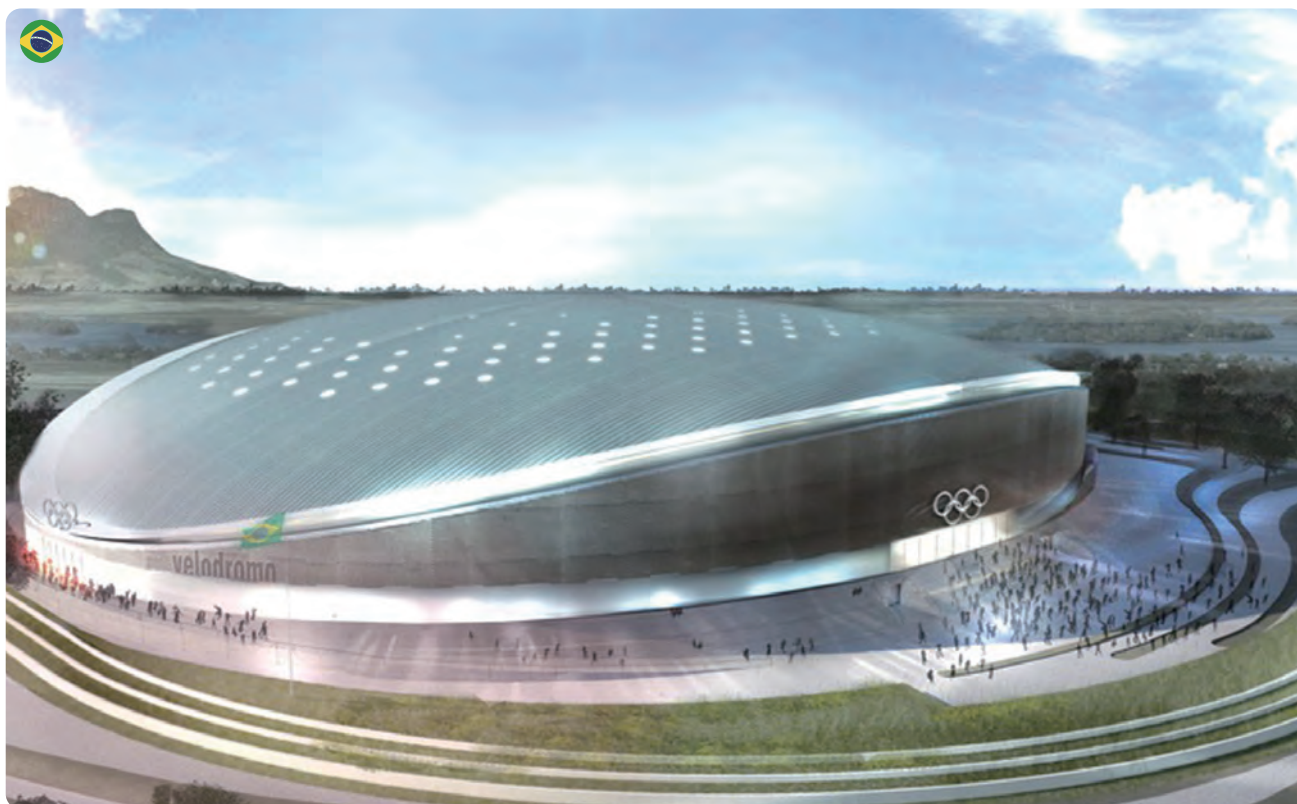


2

## 2016 Rio Games Stadiums VELODROME

📦 Products: V5 X, Mini VRF (Midea)/30RB Chillers (Midea-Carrier)

🕒 Capacity: 72HP (V5X, Mini VRF), 825RT (Chillers)



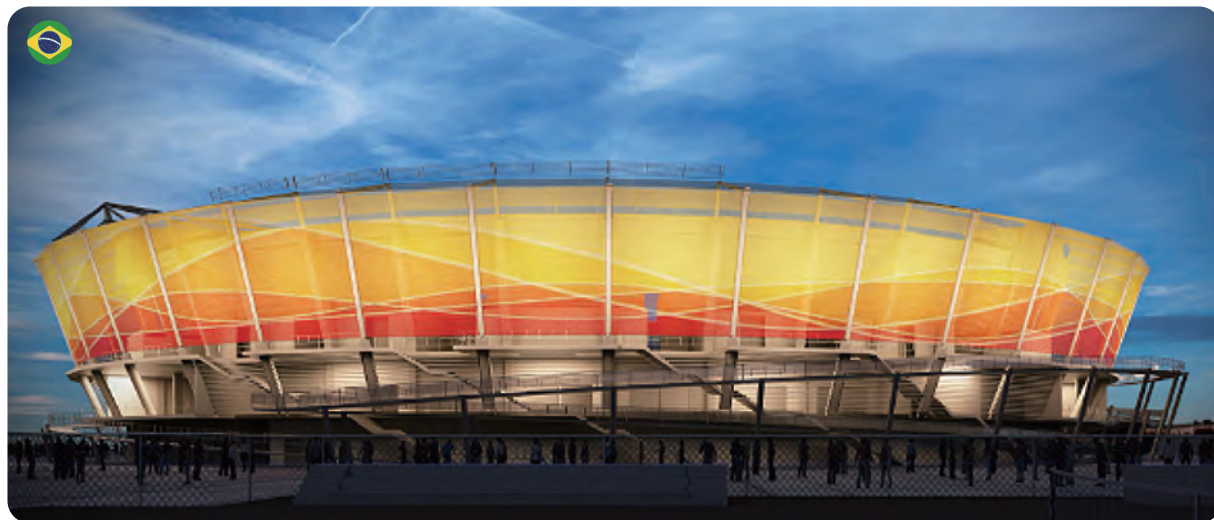


2

## 2016 Rio Games Stadiums Tennis Center

📦 Products: 30RB Chillers (Midea-Carrier)

🕒 Capacity: 240RT (Chillers)



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## 2016 Rio Games Stadiums IBC

📦 Products: 30RB Chillers (Midea-Carrier)

🕒 Capacity: 7,140RT (Chillers)





2

## 2016 Rio Games Stadiums MPC

📦 Products: V5 X (Midea)/30RB Chillers (Midea-Carrier)

🕒 Capacity: 424HP (V5 X), 1,350RT (Chillers)



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2

## 2016 Rio Games Stadiums Handball Arena

📦 Products: Mini VRF (Midea)/30RB Chillers (Midea-Carrier)

🕒 Capacity: 10HP (Mini VRF), 1,200RT (Chillers)





2

## 2016 Rio Games Stadiums OBS

📦 Products: V5 X (Midea)

🕒 Capacity: 732HP (V5 X)



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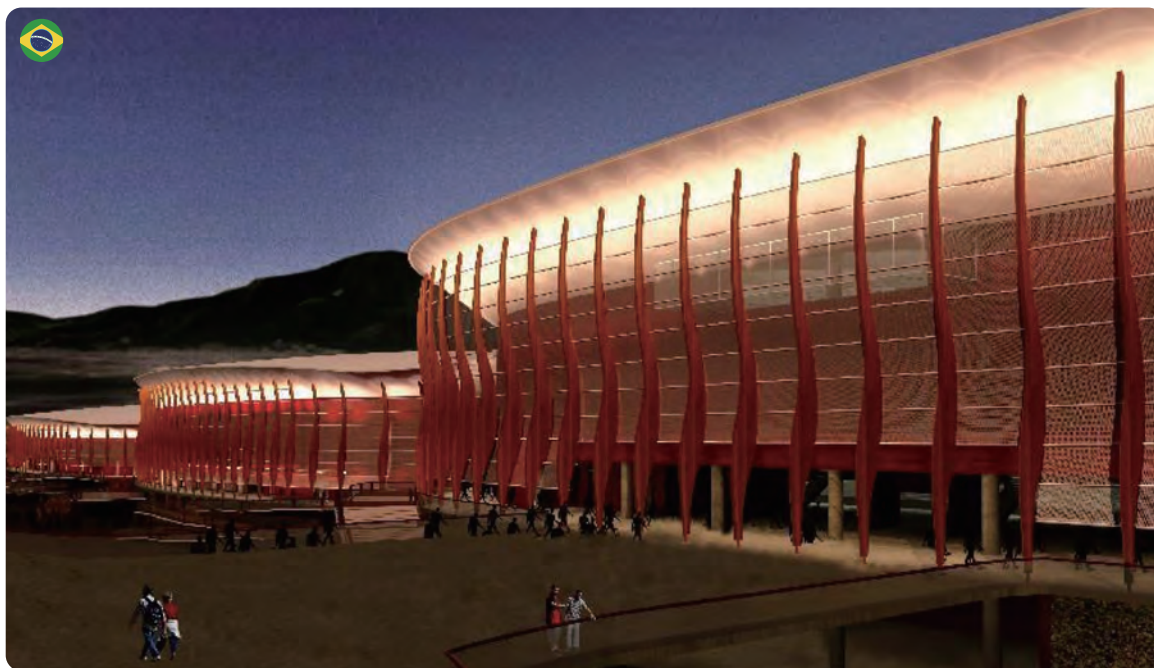


2

## 2016 Rio Games Stadiums COT1,2,3

📦 Products: V5 X, V4+ VRF (Midea)/30RB Chillers (Midea-Carrier)

🕒 Capacity: 280HP (V5 X, V4+ VRF), 3,025RT (Chillers)







2

## 2016 Rio Games Stadiums DEODORO Arena

- 📦 Products: V5 X, Mini VRF (Midea)/(13) 50TCA Rooftop (Midea-Carrier)
- 🕒 Capacity: 166HP (V5X, Mini VRF), 505RT (Rooftop)



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3

## 2014 FIFA World Cup Brazil Beira Rio Stadium

- 🌐 Country: Brazil
- 📍 City: Porto Alegre
- 🏠 Outdoor Units: 3-pipe heat recovery VRF
- 🏠 Indoor Units: Duct & Cassette type
- 🕒 Total Capacity: 1,016HP



Riverbank Stadium, the biggest one in the south of Brazil, held six group matches and two elimination matches in the 2014 World Cup. The air conditioning equipment has to adjust to the different operating and time requirements of each zone in the stadium. In addition, flexible control is needed to avoid energy waste for the large cooling load, short-term dense population and high mobility in the stadium. Midea has helped a lot in Beira Rio's winning of LEED silver certification by providing high efficiency heat recovery VRF system to the venue. V4 plus R series VRF, features top cooling and heating effect. It can achieve simultaneous cooling and heating which greatly reduces the energy consumption and help cut the running cost. Besides, it is friendlier to the environment as it emits less carbon dioxide and makes the place more cozy and comfortable for the fanatic fans. In Brazil, less than 1% of the buildings have certification of sustainability, not to say the higher level of certification LEED Silver. And the obtaining of LEED silver certification further demonstrates the excellent quality of Midea air conditioning equipment that applied in Beira Rio Stadium.

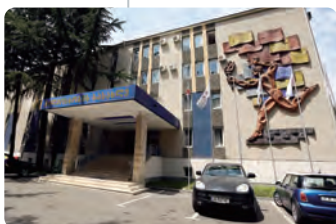


Georgia

4

## 2015 Youth Olympic Games Athletic Arena

- 🌐 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct type
- 🔋 Total Capacity: 500kW



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4

## 2015 Youth Olympic Games Athletic Arena(12 Buildings)

🕒 Country: Georgia

📍 City: Tbilisi

🏠 Outdoor Units: V4+ series VRF

🏠 Indoor Units: Wall-mounted type

🕒 Total Capacity: 54kW





Georgia

4

## 2015 Youth Olympic Games Basketball Hall

🌐 Country: Georgia

📍 City: Tbilisi

🏠 Outdoor Units: V4+ series VRF

🏠 Indoor Units: Duct & Cassette type

🕒 Total Capacity: 500kW



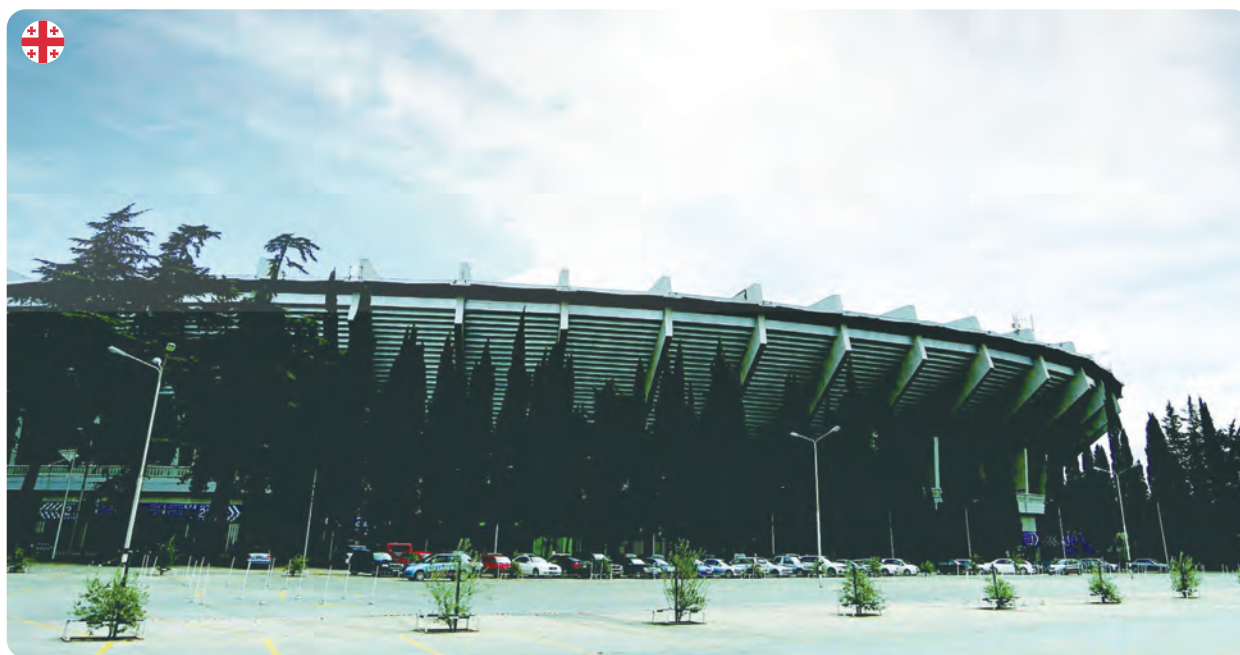
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4

## 2015 Youth Olympic Games Dinamo Arena

- 🕒 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU
- 🕒 Total Capacity: 780kW







Georgia

4

## 2015 Youth Olympic Games Judo Academy

- 🌐 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Cassette type
- 🕒 Total Capacity: 500kW



01 SPORTS

4

## 2015 Youth Olympic Games PARASPORT

- 🕒 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU
- 🕒 Total Capacity: 550kW







4  
Georgia

4

## 2015 Youth Olympic Games Sports Palace

- 🌐 Country: Georgia
- 📍 City: Tbilisi
- 🏢 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU
- 📊 Total Capacity: 780kW



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4

## 2015 Youth Olympic Games Swimming Pool

- 🕒 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: V4+ series VRF & Air-cooled modular chiller
- 🏠 Indoor Units: Duct & Cassette type
- 🕒 Total Capacity: 420kW





Georgia

4

## 2015 Youth Olympic Games Tennis Court

- 🌐 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: V4+ series VRF, Mini VRF
- 🏠 Indoor Units: Cassette type
- 🕒 Total Capacity: 190kW

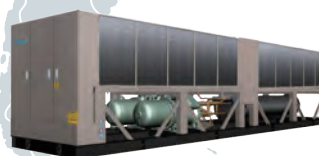


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4

## 2015 Youth Olympic Games The New Sports Palace

- 🕒 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 1,800kW







Georgia

4

## 2015 Youth Olympic Games Vere Basketball Palace

🌐 Country: Georgia

📍 City: Tbilisi

🏠 Outdoor Units: V4+ series VRF

🏠 Indoor Units: Duct & Cassette type

📊 Total Capacity: 250kW



01 SPORTS



4

## 2015 Youth Olympic Games Volleyball Arena

- 🕒 Country: Georgia
- 📍 City: Tbilisi
- 🏠 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU & AHU
- ⦿ Total Capacity: 400kW





Georgia

Congo

5

## 2014 All-Africa Games Stadiums

- 🌐 Country: Congo
- 📍 City: Brazzaville
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette type
- 🕒 Total Capacity: 9,000kW

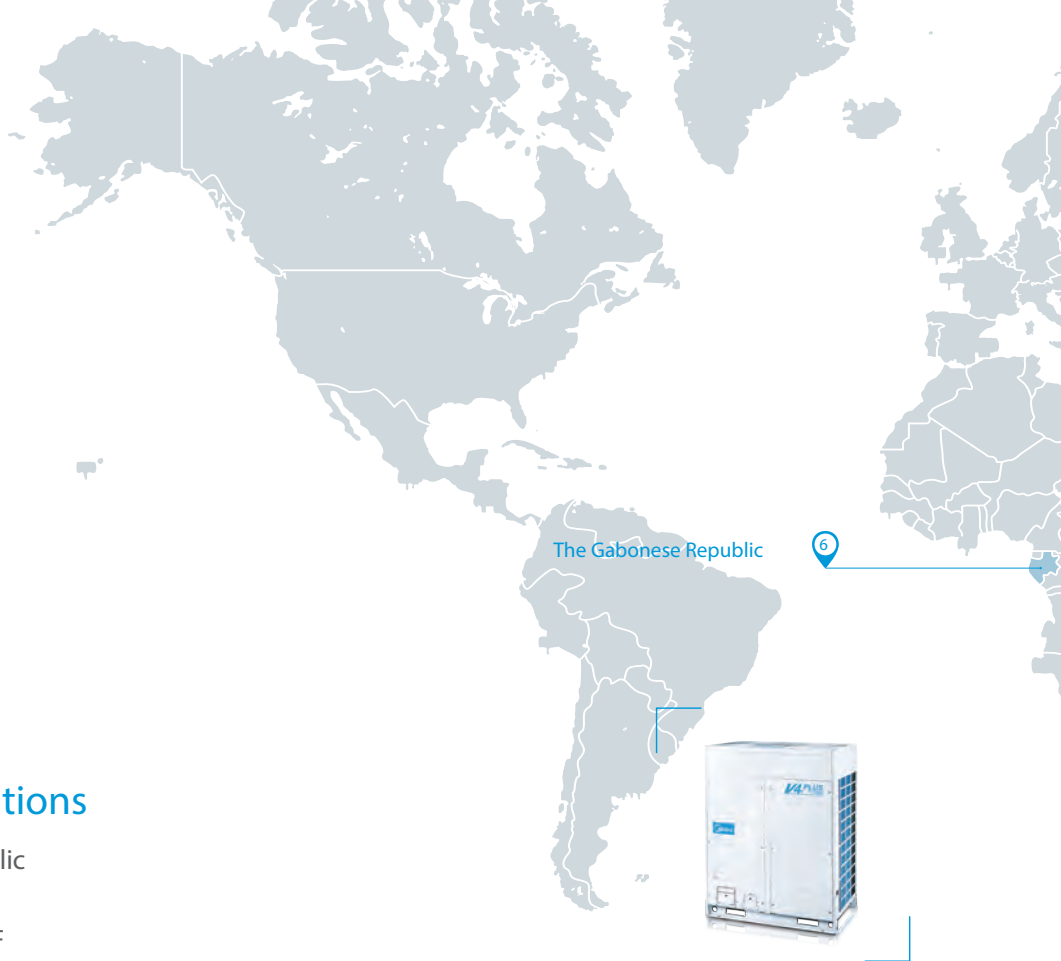


Brazzaville is located in the middle west of Africa; the south is in tropical savanna climate zone and the middle and north tropical rainy climate zone, which features high temperature and great humidity. The annual average temperature varies from 64.4 °F to 86°F, while the maximum temperature is nearly 104°F and the minimum 50°F. Midea CAC completed the VRF installation at the Olympic village ahead of the All-Africa Games in Brazzaville, Congo. The All-Africa Games, which invite every country in Africa to compete, are held every four years. This was the first time Brazzaville held a major international sporting event since the first All-Africa Games in 1965. Midea provided the equipment to the national stadium in Brazzaville, the Taranga Arena, and the entire Games village, taking care of the whole process from design and manufacturing to installation and maintenance.



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6

## 2017 African Cup of Nations

- 🌐 Country: The Gabonese Republic
- 📍 City: Oyem
- 🏢 Outdoor Units: V4+K series VRF
- 🏠 Indoor Units: A5 duct
- 🔋 Total Capacity: 340HP



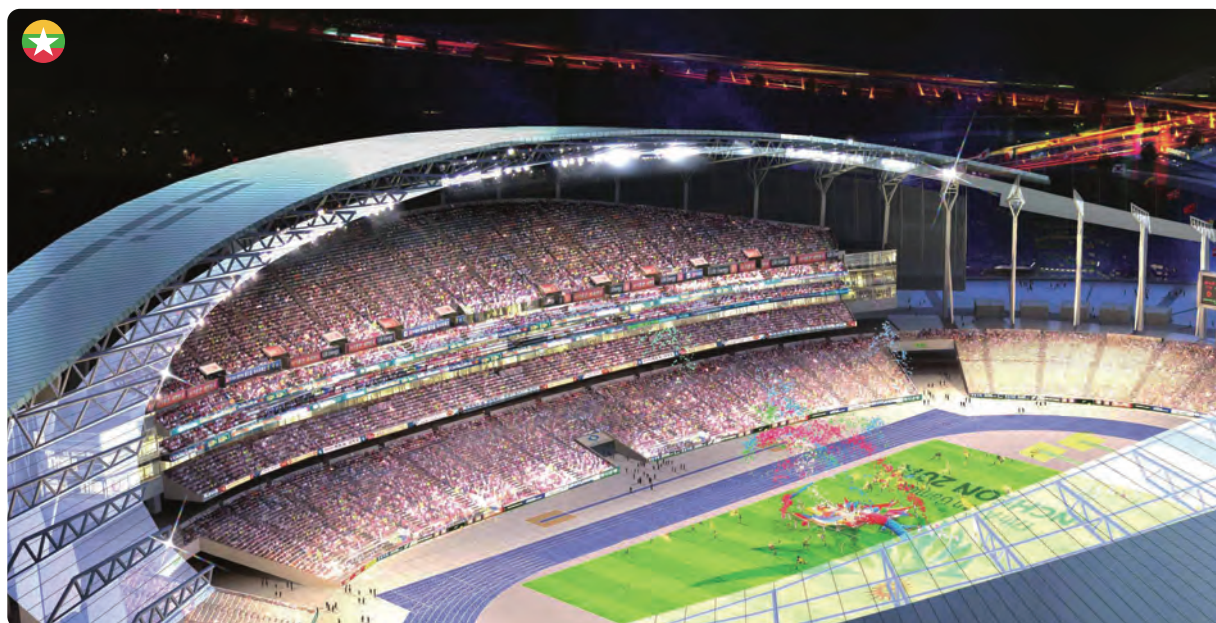
The African Cup of Nations is hosted by the African football confederation, which is the highest football match in Africa. It is the same level with the European Cup, the Copa America and the Asian Cup. The first African Cup of Nations was held in 1957 and the 31st session was held in Gabon in 2017. Gabon's stadium is specially constructed for the game. It is a multi-functional comprehensive stadium which consists of football field, small hotels, conference rooms, offices and so on. This is the second time that Midea served for large venues in Africa, the first time was in Congo in 2015 All Africa Games Stadiums.



7

## The 27th Southeast Asian Games Stadium

- 🌐 Country: Myanmar
- 📍 City: Nay Pyi Taw
- 🏠 Outdoor Units: Water-cooled screw chiller
- 🏠 Indoor Units: MAHU
- 📊 Total Capacity: 5,040HP



01 SPORTS





8

## Russia Federation National Olympics Sports

- 🌐 Country: Russia
- 📍 City: Moscow
- 🏢 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 500kW







9

## Concrete Forest—Expo Milano 2015

🌐 Country: Italy

📍 City: Milano

🏠 Product: Heat Pump



01 SPORTS







# REFERENCE PROJECTS TRANSPORTATION

/ Singapore Changi Airport

/ Addis Ababa & Djibouti Railway

/ Guangzhou Baiyun International Airport

/ Beijing Capital Airport T3 Terminal

/ Jakarta International Airport

/ Labuan Bajo Airport

/ Mauritius Sir Seewoosagur Ramgoolam

/ Mozambique Capital Airport

/ Sulaymaniyah Airport

/ TIVAT Airport





## Singapore Changi Airport

- 📍 Country: Singapore
- 📍 City: Changi
- 📦 Outdoor Units: VRF, water-cooled packaged units
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 2,084kW



Singapore Changi International Airport is a member of the Star Alliance and the main airline hub of Singapore airlines. It has always been the No.1 airport in the world for the past three years, and the No.1 Terminal has been in operation for 35 years. Midea CAC provided VRF and water-cooled packaged units in the renovated project.





2

## Addis Ababa-Djibouti Railway

- 🌐 Country: Ethiopia & Djibouti
- 🏠 Outdoor Units: VRF, precision A/C
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 26,266kW
- 📅 Completion Year: 2016



As the Africa's first electric railway with the total length of 752.7 kilometers, Ethiopia-Djibouti Railway is the second African transnational railway after the Tanzania Zambia Railway.

Owing to the globally leading product and high-quality service system, Midea CAC gained recognition from the local railway departments and served for the air conditioner projects of the Ethiopia-Djibouti Railway, mainly applying precision A/C and VRF in the air conditioner systems.



02 TRANSPORTATION

3

## Guangzhou Baiyun International Airport T2 Terminal

- 📍 Country: China
- 📍 City: Guangzhou
- 🏢 Outdoor Units: Centrifugal chiller
- 🏢 Indoor Units: FCU & AHU
- 📊 Total Capacity: 43,000RT



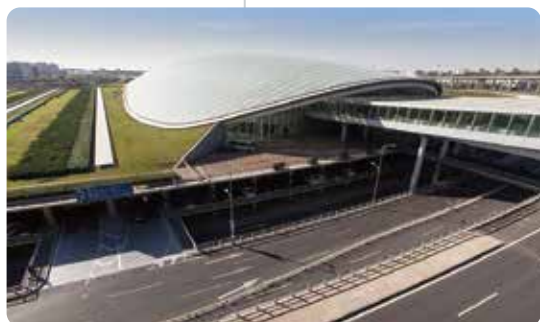
Midea CAC provided 30 high efficiency centrifugal chillers and 10 inverter direct-drive centrifugal chillers in the renovated project. Midea inverter direct-drive centrifugal chiller has less refrigerant charge and lower noise, COP is up to 6.399, and owns more than 20 technology patents. Full ranges of Midea centrifugal chillers have been certified by AHRI and adopt full falling film technology which can save refrigerant charging volume by 40%.





## Beijing Capital Airport T3 Terminal

- 🌐 Country: China
- 📍 City: Beijing
- 🏢 Outdoor Units: Centrifugal chiller & water-cooled screw chiller
- 🏠 Indoor Units: FCU
- 🔋 Total Capacity: 33,600kW





5

## Jakarta International Airport

- 🌐 Country: Indonesia
- 📍 City: Jakarta
- 🏠 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 1,400kW





6

## Labuan Bajo Airport

- 🌐 Country: Indonesia
- 📍 City: Labuan Bajo
- 🏠 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: AHU
- 🔋 Total Capacity: 1,440kW







7

## Mauritius Sir Seewoosagur Ramgoolam

- 🌐 Country: Mauritius
- 📍 City: Port Louis
- 🏠 Indoor Units: FCU
- 📊 Total Capacity: 2,330RT
- 📅 Completion Year: 2013





8

Mozambique

Mauritius

## Mozambique Capital Airport

🌐 Country: Mozambique

📍 City: Maputo

🏠 Outdoor Units: Air-cooled screw chiller & DC inverter VRF

🏠 Indoor Units: FCU & AHU

📊 Total Capacity: 4,000RT



02 TRANSPORTATION

9

## Sulaymaniyah Airport

- 📍 Country: Iraq
- 📍 City: Sulaymaniyah
- 🏠 Outdoor Units: Tropical air-cooled scroll chiller
- 🕒 Indoor Units: FCU
- 📅 Completion Year: 2017







10 MONTENEGRO

9 Iraq

10

## TIVAT Airport

🌐 Country: MONTENEGRO

📍 City: Tivat

📦 Product: Rooftop packaged units



02 TRANSPORTATION









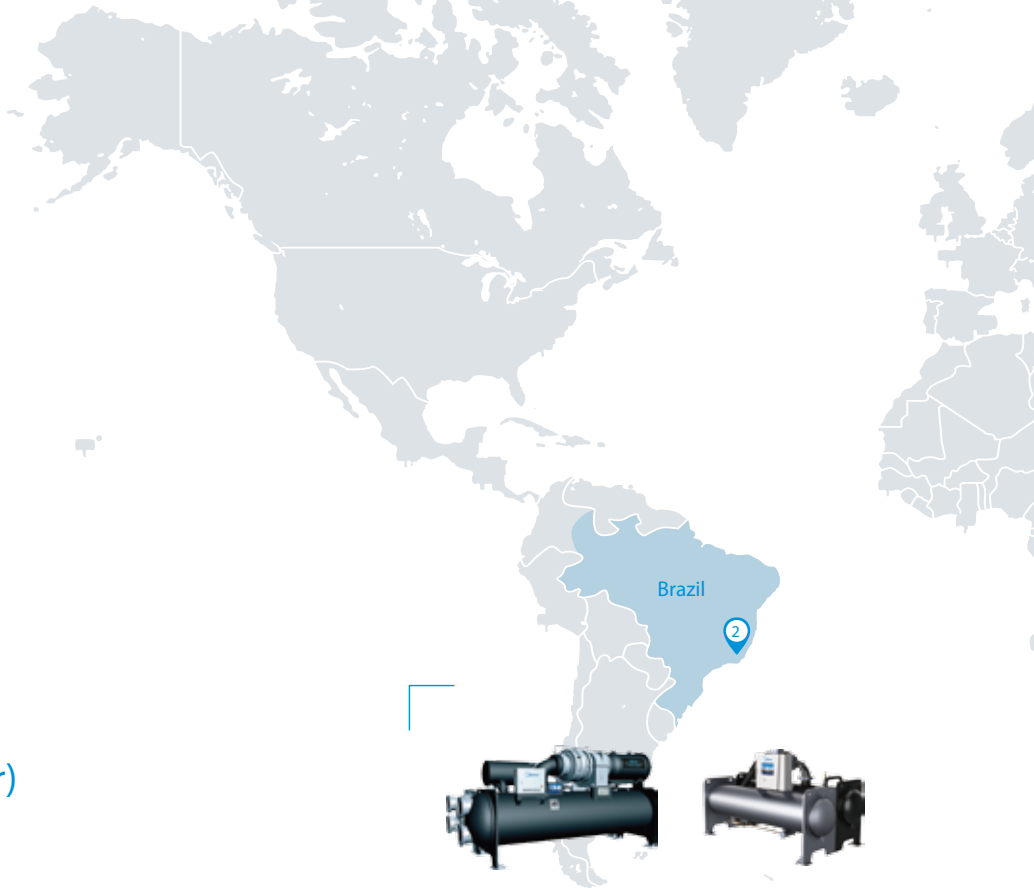
# REFERENCE PROJECTS

## HOTELS & RESORTS

- / Marriott Hotel(Five Star)
- / Hotel Marriott Porto Maravilha
- / Hilton Hotel in Foshan(Five Star)
- / Hilton Barcelona Maria Cristina(Five Star)
- / Sheraton Bandara Resort Hotel (Five Star)
- / Sheraton Hotel in Annaba
- / SANA Residence - SANA Berlin Hotel
- / SUD Lisboa - SANA
- / Mercure Nusa Dua Bali(Five Star)
- / Alana Hotel(Five Star)
- / Alan Xafira Deluxe Resort & Spa(Five Star)
- / Corona Plaza(Five Star)
- / Intercontinental Hotel(Five Star)
- / Grand Mercure Hotel(Five Star)
- / Renaissance Hotel(Five Star)
- / Sayaji Hotel
- / Great Wall Plaza
- / Hotel INATEL Manteigas
- / LUNA Hotel Serra da Estrela
- / Atlantis Hotel(Five Star)





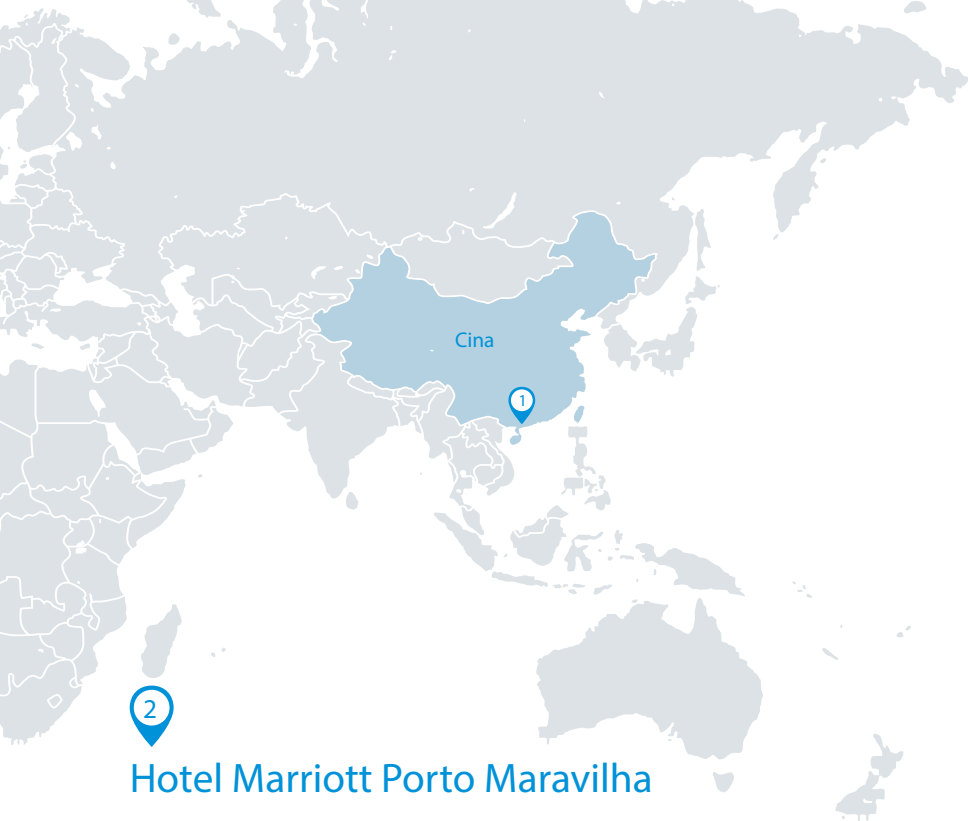


1

## Marriott Hotel(Five Star)

- 🌐 Country: Cina
- 📍 City: Foshan
- 🏢 Outdoor units: Centrifugal chiller
- 🏠 Indoor units: FCU & AHU
- 📊 Total capacity: 1,900RT



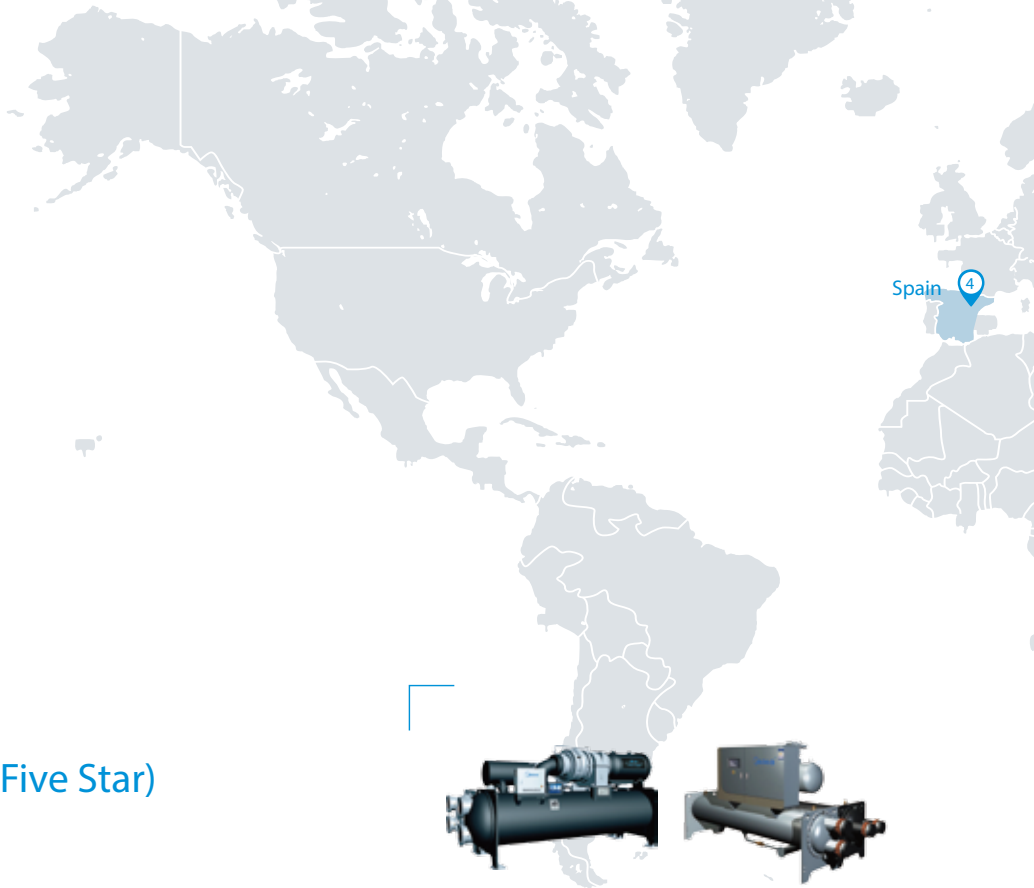


2

## Hotel Marriott Porto Maravilha

- 🌐 Country: Brazil
- 📍 City: Rio de Janeiro
- 🏢 Outdoor units: V5 X series VRF
- 🏠 Indoor units: Duct & Cassette
- 📊 Total capacity: 338HP





3

## Hilton Hotel in Foshan(Five Star)

- 🌐 Country: China
- 📍 City: Foshan
- 🏢 Outdoor units: Centrifugal chiller & Water-cooled screw chiller
- 🏠 Indoor units: FCU & AHU
- 🕒 Total capacity: 4,500RT



In this case, Midea provided 2 sets of 1 000RT plus 2 sets of 600RT centrifugal chillers, adopting the large temperature difference method for the host building mainly for hotel rooms and similar service. Besides, another 2 sets of 400RT regular centrifugal chillers had been applied as the cooling system for the supermarkets & shops, stores as well. In addition, 2 units of water-cooled heat recovery screw chillers were catering for customers of hot water need anytime, offering the ever best comfort experience in Hilton hotel.





4

## Hilton Barcelona Maria Cristina(Five Star)

- 🕒 Country: Spain
- 📍 City: Barcelona
- 🏢 Outdoor units: 3-pipe heat recovery VRF
- 🏠 Indoor units: Duct & Cassette
- 📊 Total capacity: 1,200HP



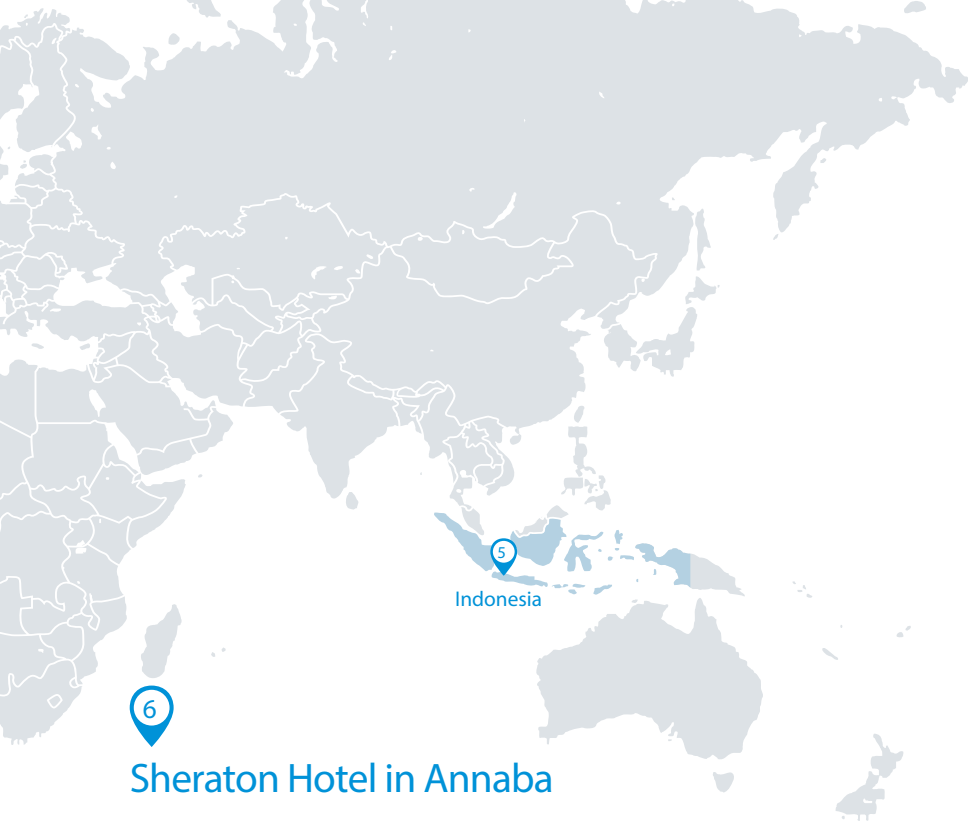


5

## Sheraton Bandara Resort Hotel (Five Star)

- 🌐 Country: Indonesia
- 📍 City: Jakarta
- 🏠 Outdoor units: Air-cooled screw chiller
- 🏠 Indoor units: FCU
- 👤 Total capacity: 1,050RT



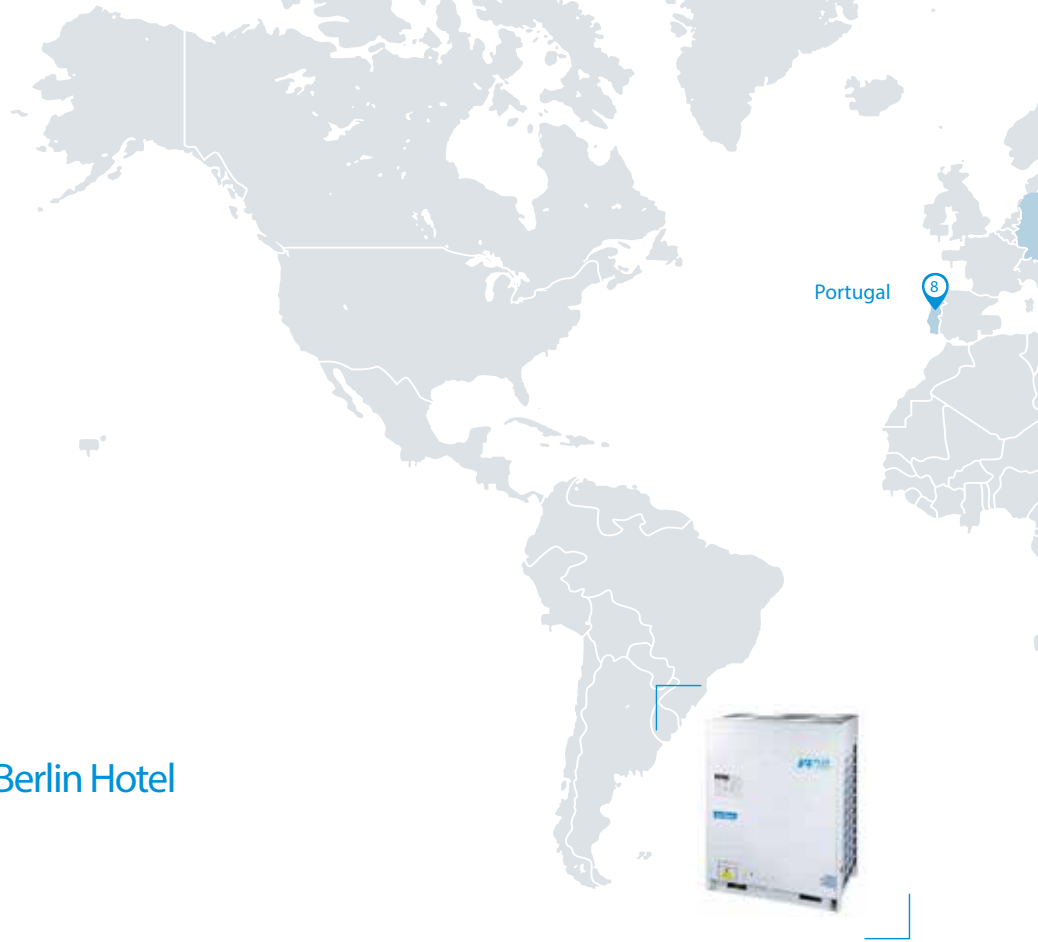


## Sheraton Hotel in Annaba

- 🌐 Country: Algeria
- 📍 City: Annaba
- 🏢 Outdoor units: V4+ Series VRF
- 🏠 Indoor units: Duct







7

## SANA Residence - SANA Berlin Hotel

- 📍 Country: Germany
- 📍 City: Berlin
- 📦 Outdoor units: V4+ Series VRF
- 🏠 Indoor units: Duct



7 Germany

8

## SUD Lisboa - SANA

🌐 Country: Portugal

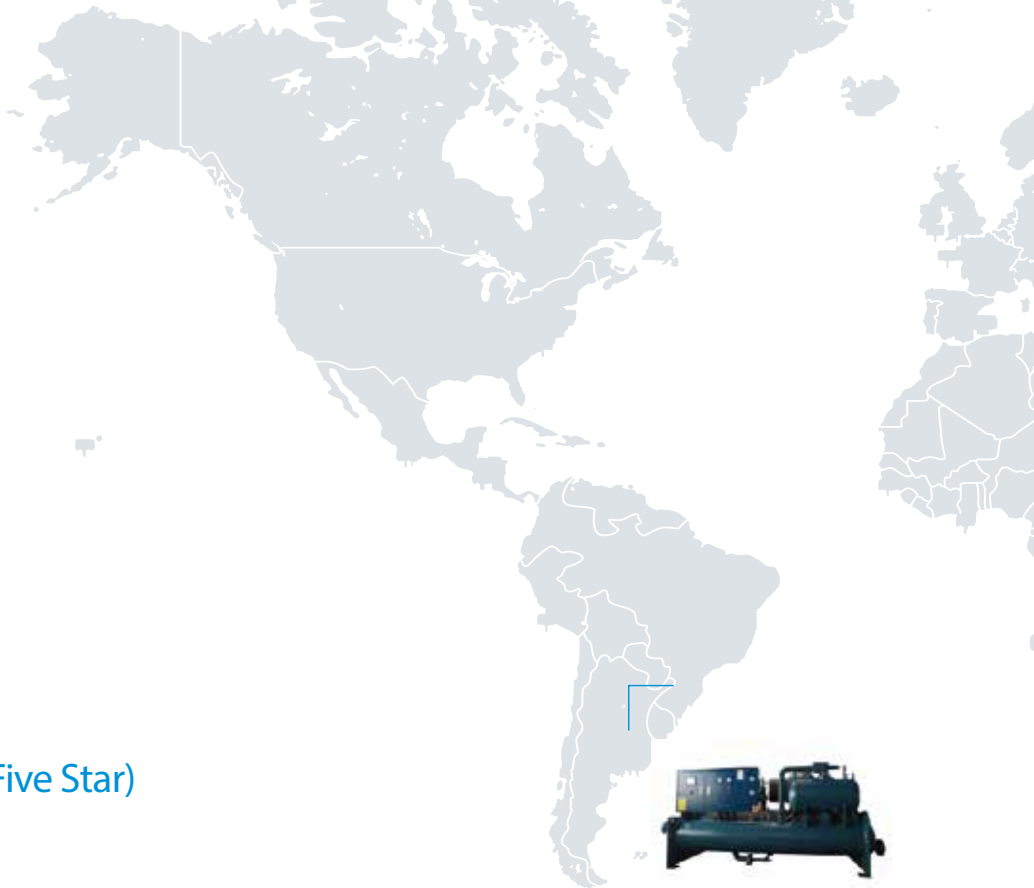
📍 City: Lisbon

🏠 Outdoor units: V5 X Series VRF & V4+ Series VRF

🏠 Indoor units: Duct



03 HOTELS & RESORTS



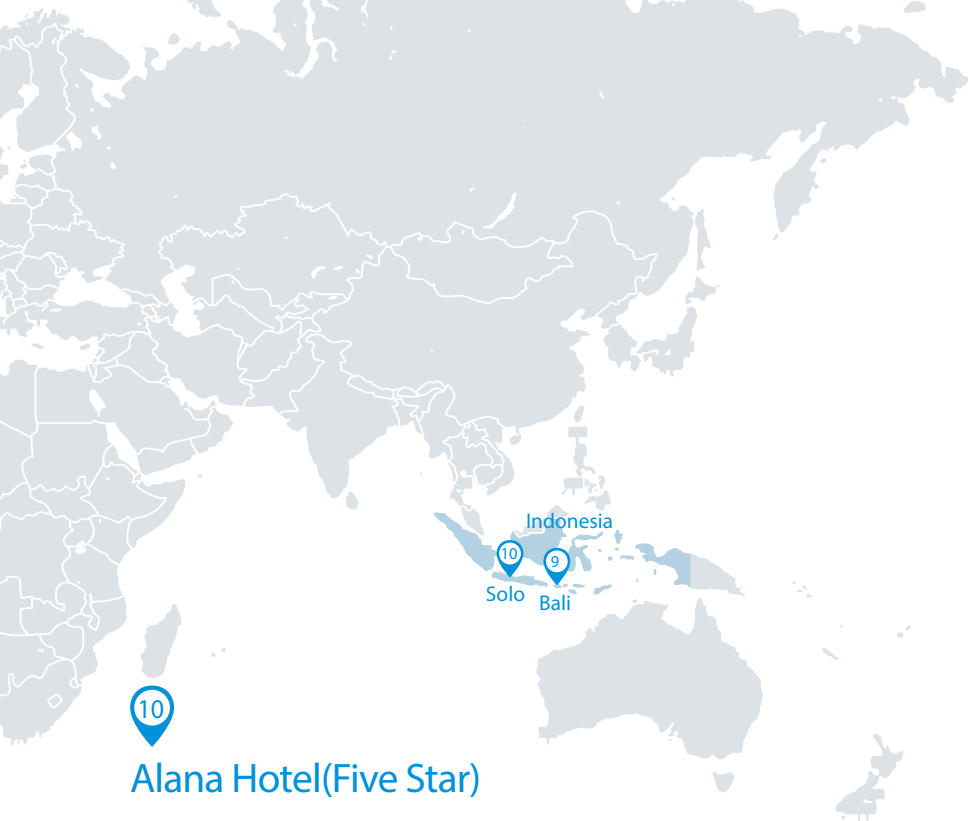
9

## Mercure Nusa Dua Bali(Five Star)

- 🌐 Country: Indonesia
- 📍 City: Bali
- 🏢 Outdoor units: Water-cooled screw chiller
- 🏠 Indoor units: FCU & AHU
- 📊 Total capacity: 636RT







10

## Alana Hotel(Five Star)

- 🌐 Country: Indonesia
- 📍 City: Solo
- 🏢 Outdoor units: Water-cooled screw chiller
- 🏠 Indoor units: FCU & AHU
- 📊 Total capacity: 615RT



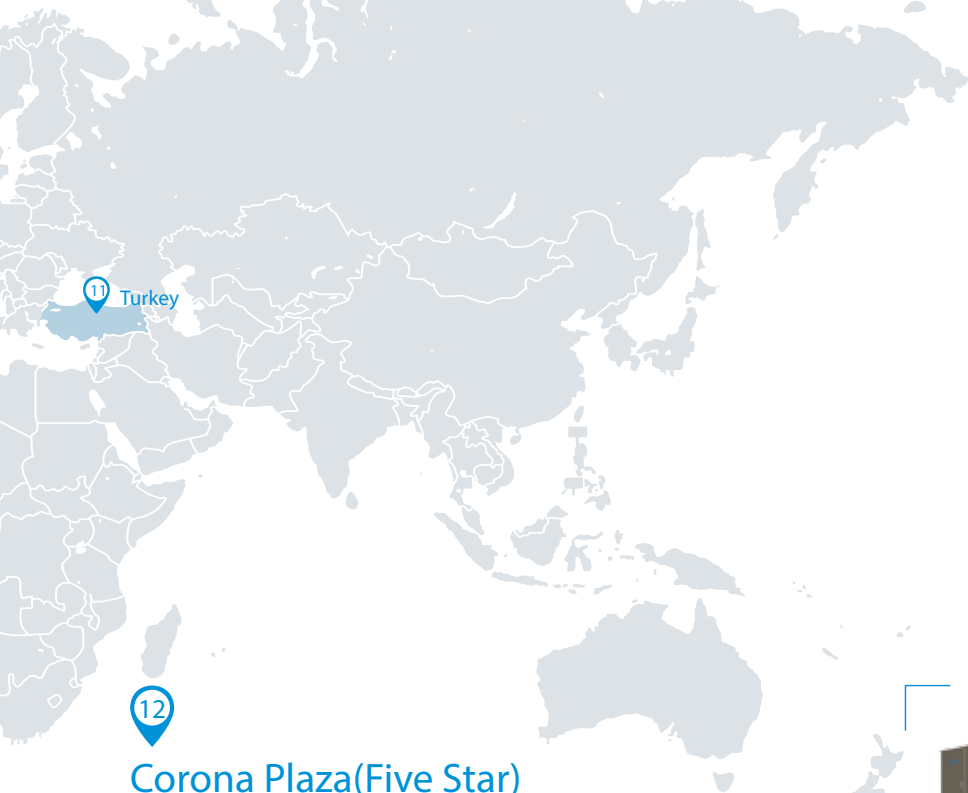


11

## Alan Xafira Deluxe Resort & Spa(Five Star)

- 🌐 Country: Turkey
- 📍 City: Alanya
- 🏠 Outdoor units: V4+ series VRF
- 🏠 Indoor units: Cassette & Duct & Wall-mounted
- 🕒 Total capacity: 1,380HP





11 Turkey

12

## Corona Plaza(Five Star)

🌐 Country: Peru

📍 City: Tumbes

🏢 Outdoor units: Inverter direct-drive centrifugal chiller & Air-cooled screw chiller

🕒 Total capacity: 1,200RT

📅 Completion Year: 2016





13

## Intercontinental Hotel(Five Star)

🌐 Stato: Indonesia

📍 Città: Bandung

📦 Unità esterne: V4+ serie VRF

🏠 Unità interne: Cassette & Duct

⦿ Potenza totale: 873RT





14

## Grand Mercure Hotel(Five Star)

- 🌐 Stato: Indonesia
- 📍 Città: Jakarta
- 🏢 Unità esterne: Refrigeratore centrifugo Inverter direct-drive
- ⊙ Potenza totale: 1,200RT
- 📅 Anno di completamento: 2016



Come tutti sappiamo, gli hotel hanno elevati requisiti in termini di risparmio energetico, esperienza maturata con successo nel settore e prestazioni stabili dei prodotti. Il refrigeratore centrifugo inverter direct-drive Midea ha una minore carica di refrigerante e una minore rumorosità, il COP è fino a 6.399 e possiede più di 20 brevetti tecnologici. Midea CAC installerà 3 refrigeratori inverter direct-drive con una capacità totale di 1.200RT.





15

## Renaissance Hotel(Five Star)

🕒 Country: Thailand

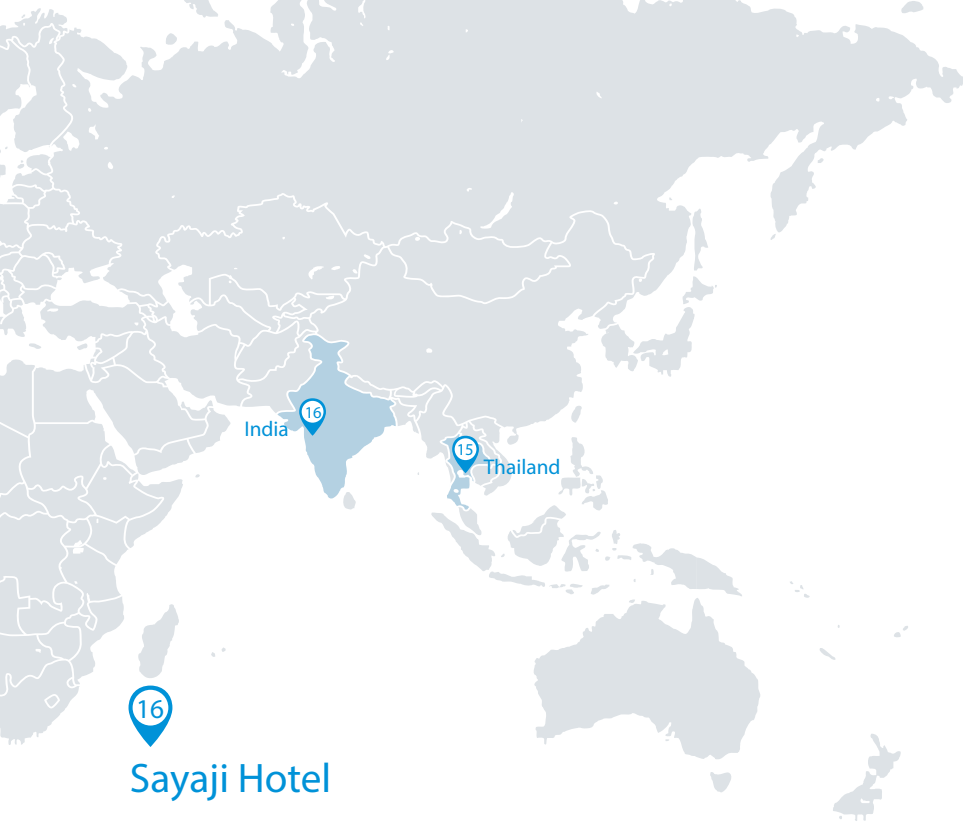
📍 City: Pattaya

🏢 Outdoor Units: Air-cooled screw chiller

🔋 Total Capacity: 1,800kW





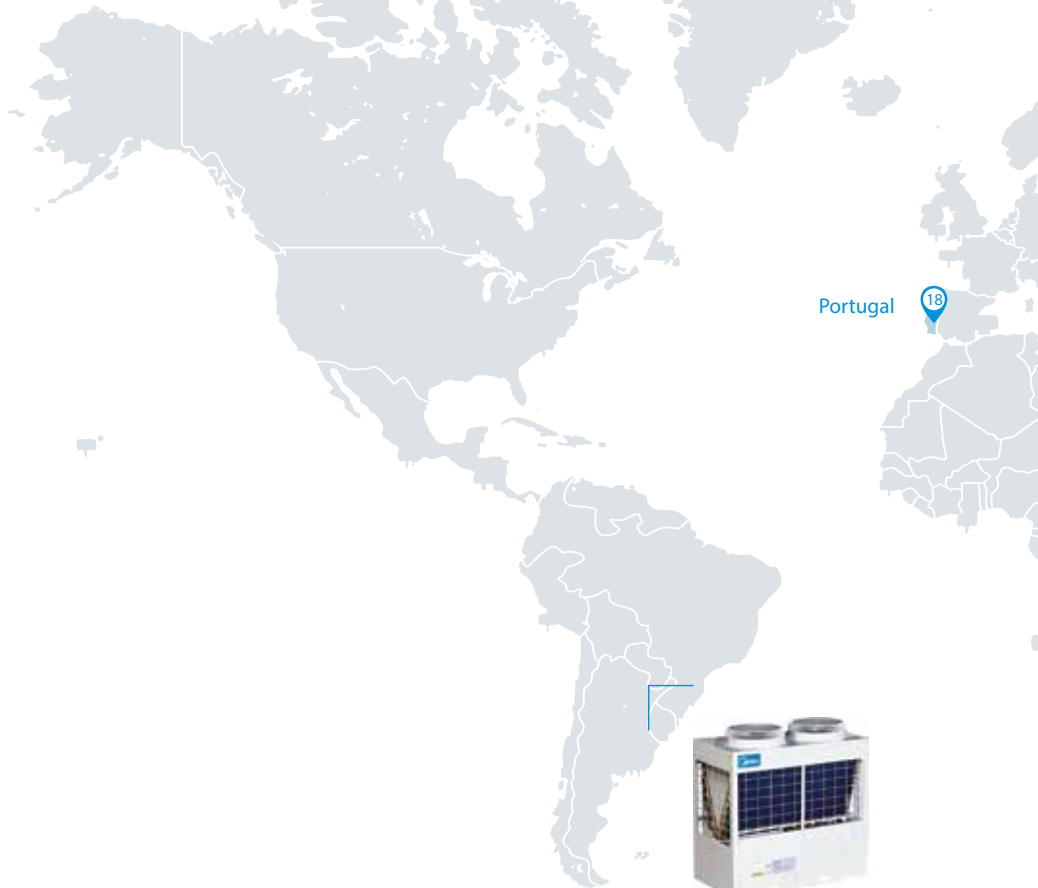


16

## Sayaji Hotel

- 🌐 Country: India
- 📍 City: Pune
- 🏢 Outdoor Units: Water-cooled screw chiller
- 📊 Total capacity: 540RT
- 📅 Completion Year: 2008





17

## Great Wall Plaza

- 🌐 Country: Vietnam
- 📍 City: Hai Duong
- 🏢 Outdoor Units: Air-cooled modular chiller & ATW Heat Pump
- 🏠 Indoor Units: FCU
- 🕒 Total Capacity: 700HP





18

## Hotel INATEL Manteigas

🌐 Country: Portugal

📍 City: Manteigas

🏠 Outdoor Units: V5 X Series VRF & 3-pipe heat recovery VRF

🏠 Indoor Units: Duct & Cassette & Wall-mounted





Portugal

19

## LUNA Hotel Serra da Estrela

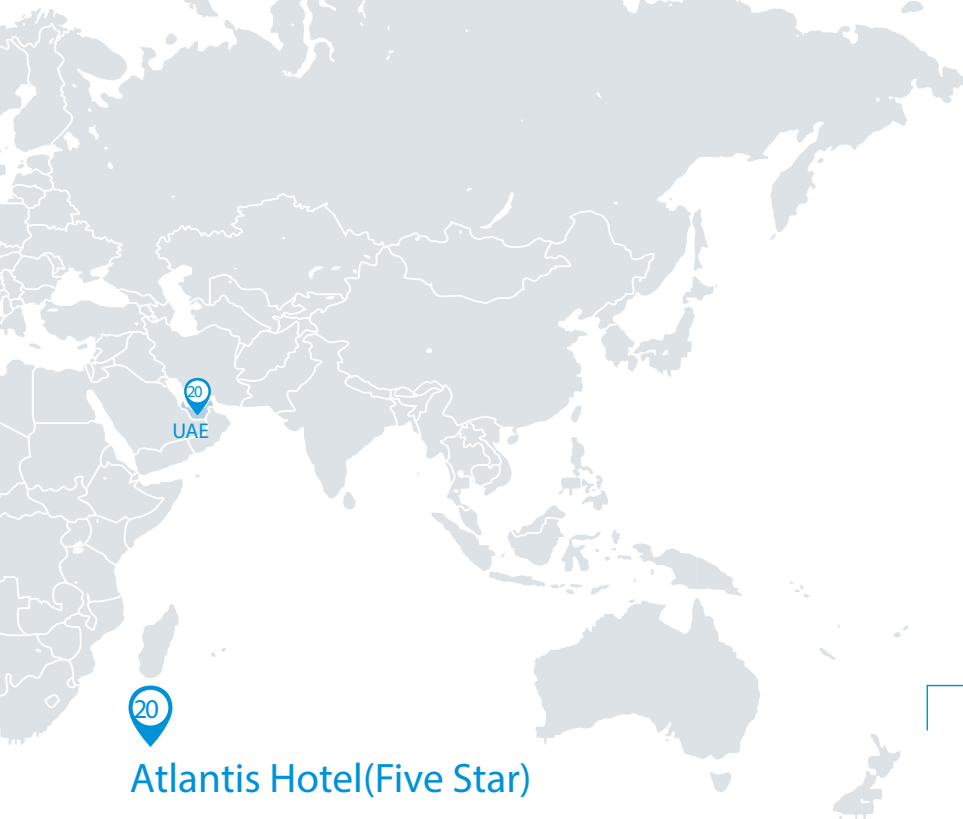
📍 Country: Portugal

📍 City: Covilhã

📦 Outdoor Units: V5 X Series VRF

🏠 Indoor Units: Duct





20  
UAE

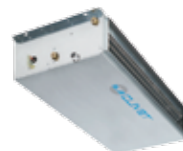
20

## Atlantis Hotel(Five Star)

🌐 Country: UAE

📍 City: Dubai

📦 Products: FCU & AHU











# REFERENCE PROJECTS COMPLEX

/ Dalma Mall

/ Casa Shopping Mall

/ Butovo Mall

/ Grand Comfort Material Market

/ Hartono Lifestyle Mall

/ NORDIKA Shopping Mall

/ Major Platinum Cineplex Laos

/ Harvey Nichols Edinburgh

/ Mumbai Little World Shopping Mall

/ Treasure Bazaar Nanded

/ Treasure Island

/ City Mall

/ Amana Mall in Pakistan

/ Parasol Sevilla

/ UPR Carolina

/ Vulcano Buono



1

## Dalma Mall

- 📍 Country: UAE
- 📍 City: Abu Dhabi
- 🏢 Outdoor Units: Centrifugal chiller
- 📊 Total Capacity: 10,000RT
- 📅 Completion Year: 2014








Dalma Mall is the largest shopping mall in Abu Dhabi. Midea CAC put forward the new design 5\*2000 RT by applying hero product—super high efficiency falling film centrifugal chiller in the renovated project. We also provided refrigerant leak detection and management system according to requirement.





## Casa Shopping Mall

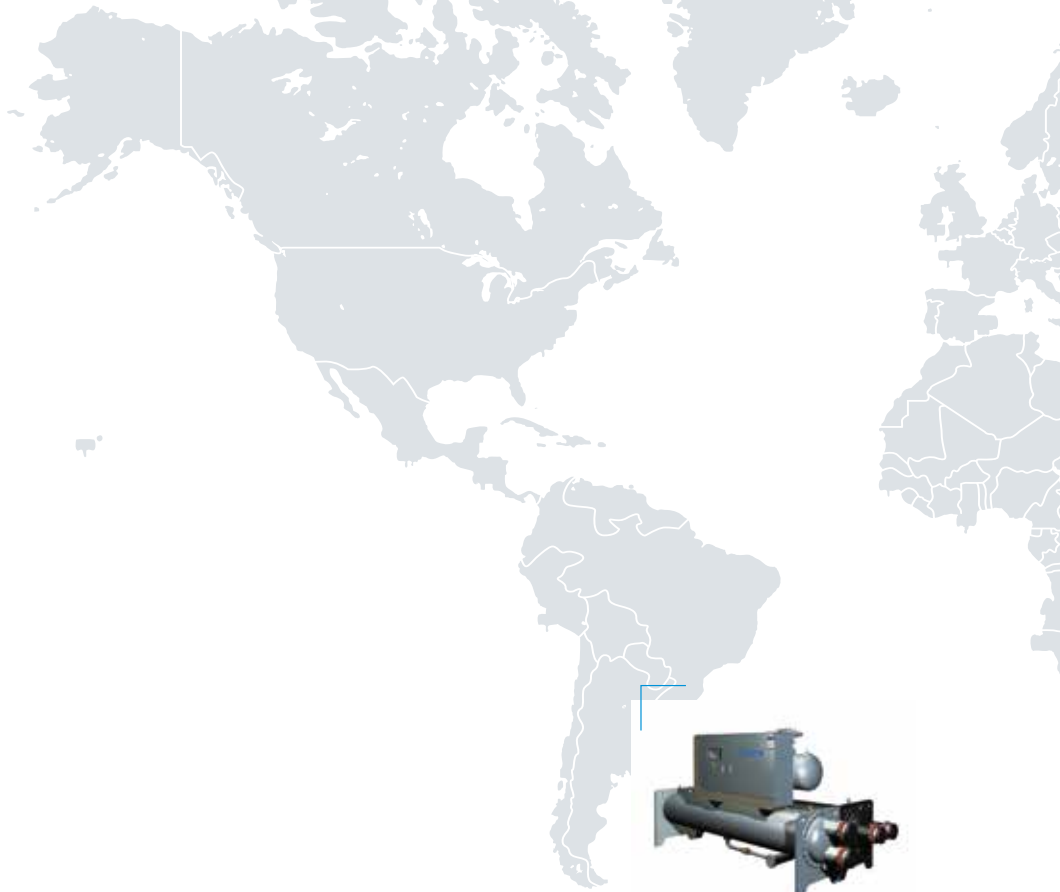
-  Country: Brazil
-  City: Rio de Janeiro
-  Outdoor Units: V4+ series VRF
-  Indoor Units: Duct & Cassette
-  Total Capacity: 1,000HP



Casa Shopping is a shopping mall specialized in furniture's stores, interior design, and home decoration in Brazil. It is located in the Barra da Tijuca neighborhood of Rio de Janeiro. It is opened on September 28, 1984. Casa Shopping has 120 stores, is 61,500 m<sup>2</sup> in size, it is the biggest home decoration mall in Latin America.







3

## Butovo Mall

- 📍 Country: Russia
- 📍 City: Moscow
- 🏢 Outdoor Units: Water-cooled screw chiller
- 🔋 Total Capacity: 5,000kW
- 📅 Completion Year: 2015





4

## Grand Comfort Material Market

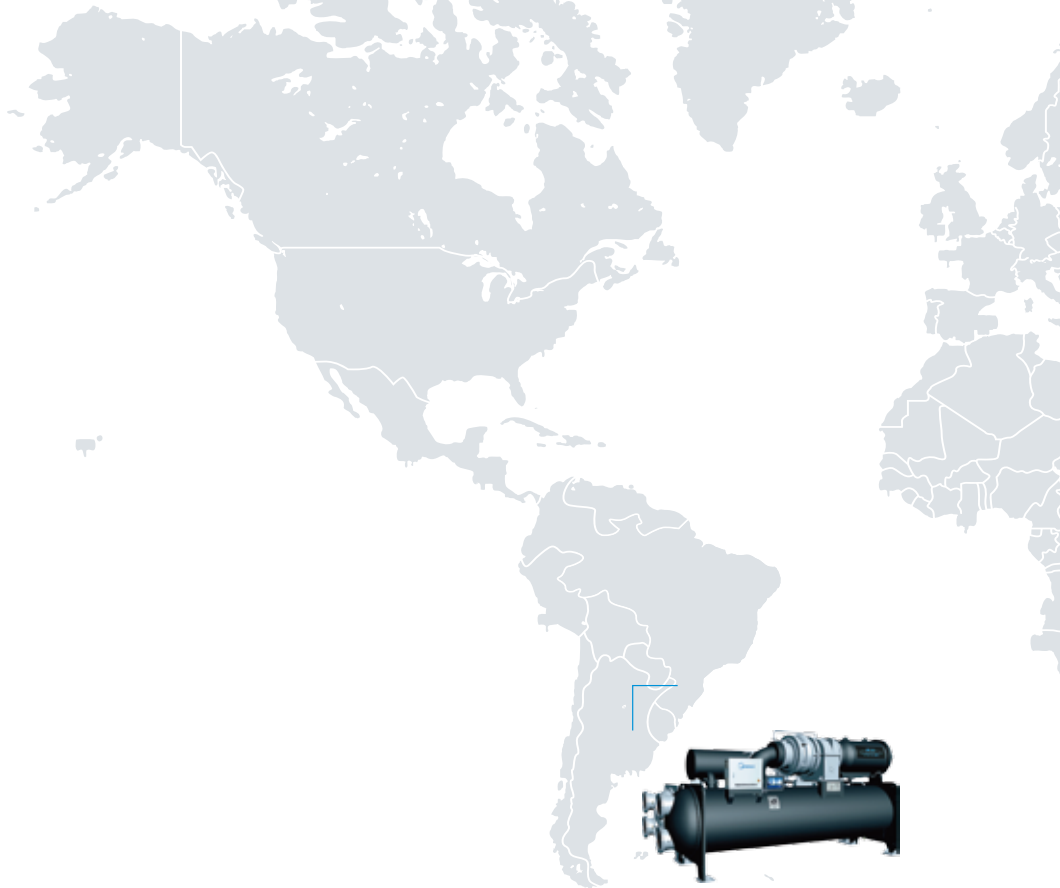
- 🌐 Country: Kyrgyzstan
- 🏠 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU & AHU
- 📊 Total Capacity: 5,780kW
- 📅 Completion Year: 2015



Grand Comfort is the largest material market in middle Asia, the total area is 55,000 square meters. Midea CAC provided 21 air-cooled power and super modular chillers for the project. The total capacity is up to 5,780kW.



04 COMPLEX



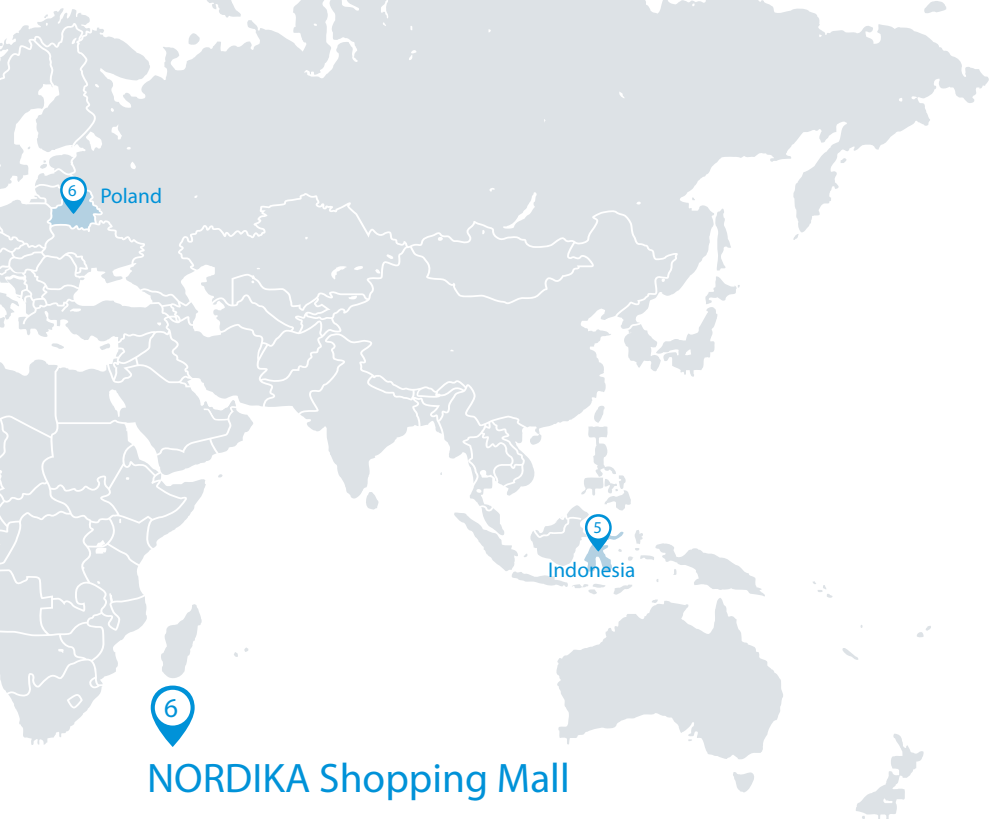
5

## Hartono Lifestyle Mall

- 🌐 Country: Indonesia
- 📍 City: Yogyakarta
- 🏢 Outdoor Units: Centrifugal chiller
- 🏠 Indoor Units: FCU & AHU
- 🕒 Total Capacity: 5,000RT







6 Poland

5 Indonesia

6

## NORDIKA Shopping Mall

- 🌐 Country: Poland
- 📍 City: Krakow
- 🏢 Outdoor Units: V4+K series VRF
- 🏠 Indoor Units: Duct & Cassette
- 📅 Completion Year: 2016



04 COMPLEX



7

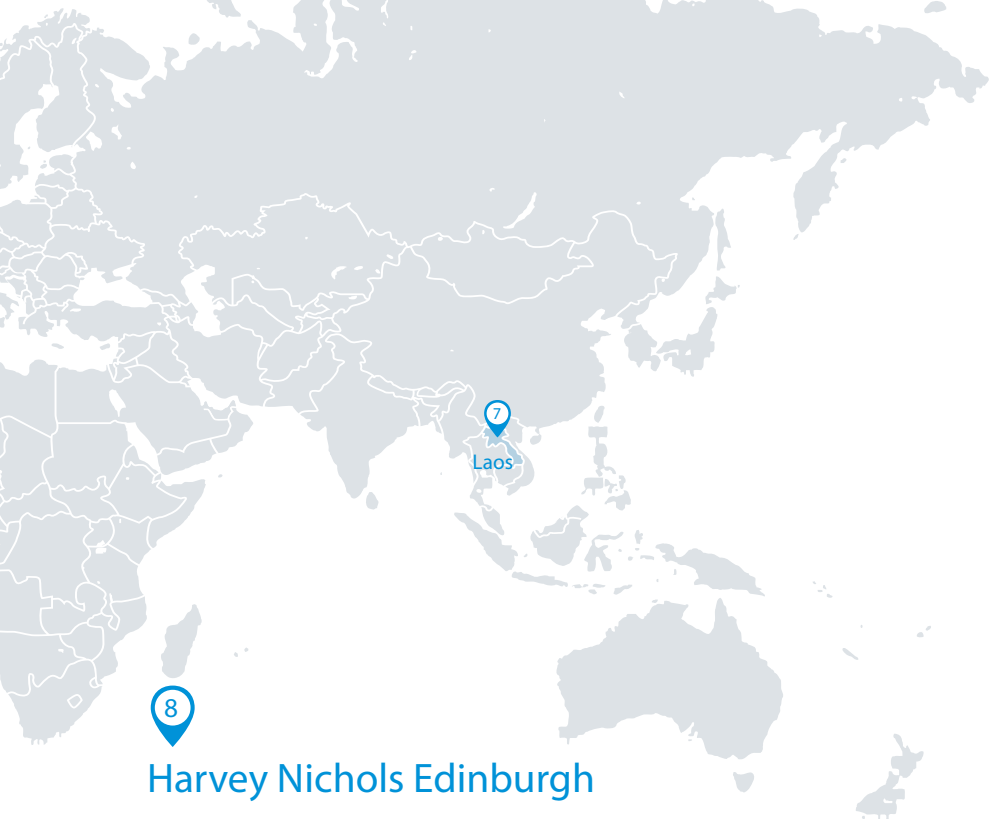
## Major Platinum Cineplex Laos

- 📍 Country: Laos
- 📍 City: Vientiane
- 🏢 Outdoor Units: Centrifugal chiller & Water-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 📊 Total Capacity: 2,000RT



Vientiane Center marks a milestone in Laos's commercial development and is located at the center of Vientiane. The center has built-up floor area of 120,000 square meters and is an integrated development consisting of commercial, office, F&B, entertainment, serviced apartment and other functions. Midea CAC installed two centrifugal chillers and two water-cooled screw chillers with the total capacity of 2,000RT.





8

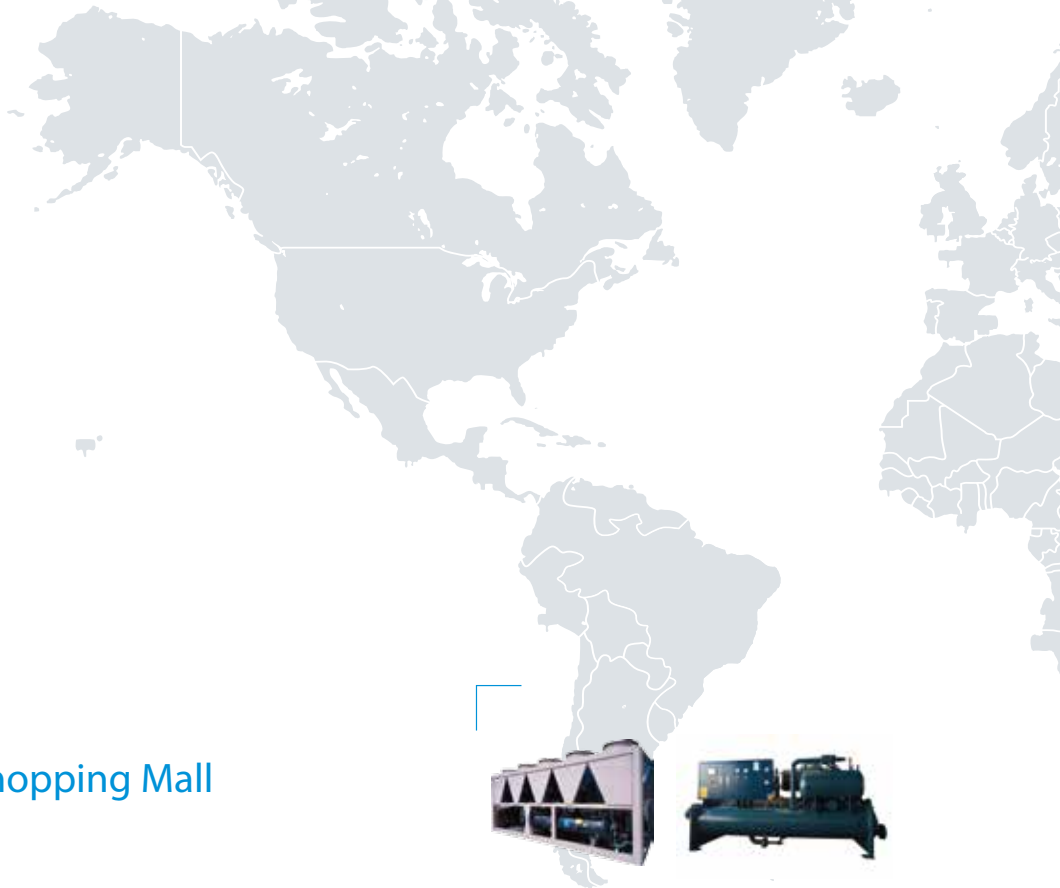
## Harvey Nichols Edinburgh

- 🌐 Country: UK
- 📍 City: Edinburgh
- 🏠 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU
- 📊 Total Capacity: 255HP



04 COMPLEX





9

## Mumbai Little World Shopping Mall

- 📍 Country: India
- 📍 City: Mumbai
- 🏢 Outdoor Units: Water-cooled & Air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 1,280HP





10

## Treasure Bazaar Nanded

- 🌐 Country: India
- 📍 City: Nanded
- 🏢 Outdoor Units: Water-cooled screw chiller
- 📏 Total Capacity: 817RT
- 📅 Completion Year: 2008



04 COMPLEX

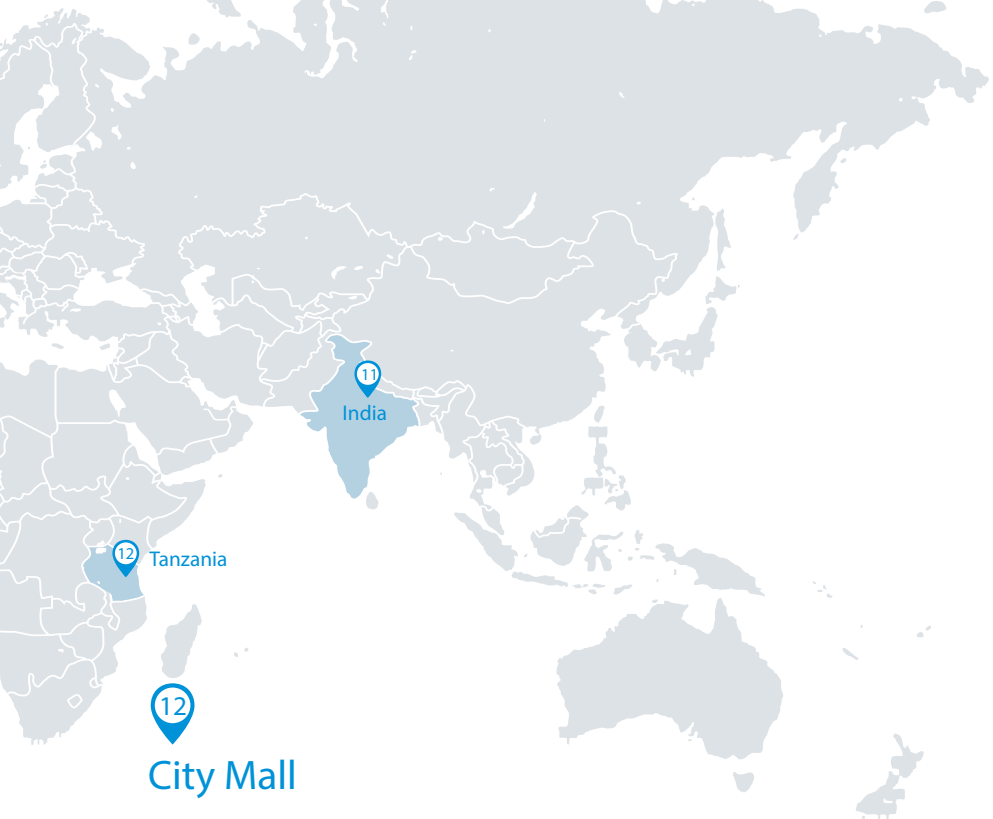
11

## Treasure Island

- 🌐 Country: India
- 📍 City: Raipure
- 🏢 Outdoor Units: Centrifugal chiller
- 📊 Total Capacity: 3,350RT
- 📅 Completion Year: 2008







12

## City Mall

- 🌐 Country: Tanzania
- 📍 City: Dar es Salaam
- 🏢 Outdoor Units: Air-cooled modular chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 1,560kW



04 COMPLEX

Spain

13

## Amana Mall in Pakistan

- 🌐 Country: Pakistan
- 📍 City: Lahore
- 🏠 Outdoor Units: V5 X & V4+K series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 1,300RT





14

## Parasol Sevilla

🌐 Country: Spain

📍 City: Sevilla

🏠 Outdoor Units: V4+I series VRF

🏠 Indoor Units: Duct & Cassette



04 COMPLEX





15

## UPR Carolina

- 📍 Country: Puerto Rico
- 📍 City: San Juan
- 🏠 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: FCU
- 🔋 Total Capacity: 600kW



16

## Vulcano Buono

Country: Italy

City: Nola, Napoli

Product: Water loop heat pump, rooftop packaged units



After careful analysis, the Vulcano Buono air-conditioning system was entirely entrusted to Water Loop Heat Pump by Clivet. Only the Auchan supermarket has an independent system, for technical uniformity with the other structures in the group and due to the availability of a single roof. The sales area uses nine rooftop air-to-air heat pumps. Due to the particular conditions required, the food laboratories are served by air-conditioning units powered by two Spinchiller refrigerators, one of which is the Brine version, which supplies ice-cold water at 3°C. Thanks to the Clivet WLHP system, each individual setting automatically sets and maintains its own ideal climate year round, independently of its own position, size or intended use. In terms of the initial investment costs, the greater construction simplicity of the heat pumps and the parceling out of their purchase to the individual shop owners resulted as a winning strategy. As these machines are adapted to internal installation, no units can be seen on the Vulcano Buono slopes which are covered by three hundred and fifty thousand plants.









# REFERENCE PROJECTS

## GOVERNMENTAL PROJECTS

/ The Conference Center of African Union

/ Federal Security Service

/ Lok Ma Chou Control Point

/ National Convention Center of Republic of Vanuatu

/ The Ministry of Foreign Affairs Buliding

/ The Prime Minister Office Building

/ The Embassy of China in Indonesia

/ Mozambique Presidential Palace

/ Chile Ministry of Foreign Affairs

/ Hong Kong Police Headquarter of 8Northern New Territories

/ Provincial Inspectorate of Environmental Protection

/ Cambodia Government Communication Building



1

## The Conference Center of African Union

- 📍 Country: Ethiopia
- 📍 City: Addis Ababa
- 📦 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 835kW



The Conference Center of African Union is the largest project supported by China after Tanzania Zambia Railway in Africa. It is not only a new paradigm for friendly cooperation between China and Africa, but also the new symbol of the rise of Africa. Midea CAC gained recognition from African government and won the bid for the air conditioner project of the Conference Center of African Union because of the world-leading products and perfect after-sales service systems. Considering the desert climate and strict requirement for air conditioners, Midea CAC learned from the successful experience of the previous projects, adopted V4+ series VRF in Phase I and Phase II projects and won unanimous praises from the local government.



2

## Federal Security Service

- 🌐 Country: Russia
- 📍 City: Moscow
- 🏢 Outdoor Units: Centrifugal chiller
- 📊 Total Capacity: 5,000RT
- 📅 Completion Year: 2015



Federal Security Service is located in Moscow, mainly responsible for the safety stuff in Russia. It grew out of KGB. After the disintegration of the Soviet Union in 1991, it was named Federal Security Service. Midea CAC provided centrifugal chillers for the project after close negotiation and finally accomplished the project in 2015.





3

## Lok Ma Chou Control Point

- 📍 Country: China
- 📍 City: Hong Kong
- 🏢 Outdoor Units: Air-cooled magnetic centrifugal chiller
- 🕒 Total Capacity: 460RT
- 📅 Completion Year: 2017



Lok Ma Chou Control Point is located in Hong Kong, it is an important port to connect Hong Kong with mainland in China, and is the only full-time port of entry and exit opening 24 hours a day. Midea CAC followed the project from February 2016 and placed the order in October. This project contained two air-cooled magnetic chillers and each one is 230RT. Recently, one of them has been operating.

As a retrofit project, Lok Ma Chou Control Point put high requirements on stable operation and high energy efficiency. Midea CAC won the projects through several negotiations with the owner and finally provided the most suitable solutions. This is the first centrifugal chiller project for Midea HK and also the first air-cooled magnetic chiller project globally for Midea CAC.

The air-cooled magnetic chiller which Midea CAC customized for the project boasts substantial benefits such as high operation range, lower running noise and lower starting current. The operation range is from 115RT to 520RT, it adopts magnetic compressor which reduces the weight and realizes oil free. IPLV is up to 6.4. Besides, the full falling film technology reduces the refrigerant charging volume by 40%.



4

## National Convention Center of Republic of Vanuatu

- 🌐 Country: Vanuatu
- 📍 City: Port Vila
- 🏠 Outdoor Units: V5 X series VRF, Rooftop packaged units
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 300HP



05 GOVERNMENTAL PROJECTS

5

## The Ministry of Foreign Affairs Buliding

- 📍 Country: Tajikistan
- 📍 City: Dushanbe
- 🏢 Outdoor Units: Water-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 1,480kW



The Ministry of Foreign Affairs Building is located in Dushanbe, Tajikistan. Midea provided the air conditioning solution by adopting water-cooled screw chiller with the total capacity of 1,480kW, and the project was completed in 2012.

Midea water-cooled screw chiller is a classic product that operates on a flooded type evaporator and a high efficiency compressor. Optimized system design and enhanced heat exchange efficiency ensure the units work best under both full load and part load.

It is an ideal choice for hotels, shopping malls, government projects and so on. Every chiller is fully tested and gas charged before shipment.







6

## The Prime Minister Office Building

- 🌐 Country: Tajikistan
- 📍 City: Dushanbe
- 🏠 Outdoor Units: Water-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 📊 Total Capacity: 2,880kW



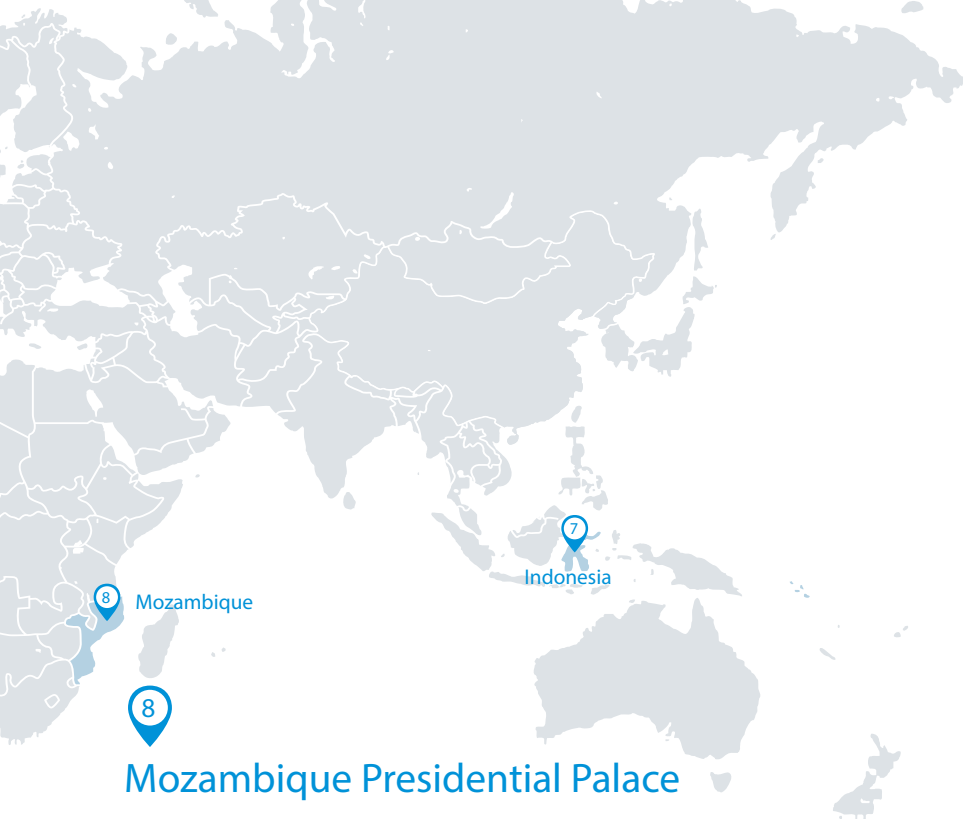


7

## The Embassy of China in Indonesia

- 📍 Country: Indonesia
- 📍 City: Jakarta
- 📦 Outdoor Units: V4+ series VRF
- 📦 Indoor Units: Wall-mounted & Cassette
- 🕒 Total Capacity: 468kW





8

## Mozambique Presidential Palace

- 🕒 Country: Mozambique
- 📍 City: Maputo
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct& Cassette
- 📊 Total Capacity: 863HP



05 GOVERNMENTAL PROJECTS





9

## Chile Ministry of Foreign Affairs

- 📍 Country: Chile
- 📍 City: Santiago
- 🏢 Outdoor Units: Inverter direct-drive centrifugal chiller
- 🏠 Indoor Units: FCU & AHU
- 📊 Total Capacity: 600RT





10

## Hong Kong Police Headquarter of Northern New Territories

- 🌐 Country: China
- 📍 City: Hong Kong
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 246HP



Lied in the north of new territories, Hong Kong Police Headquarter of Northern New Territories is one of the six police districts and it has been built for a long time. Midea CAC won the bid of the air conditioner project at the beginning of 2015 and followed the item from then on. As a renovated project, Hong Kong Police Headquarter of Northern New Territories put a high requirement on flexibility, ease of installation and maintenance and high operation efficiency as well. Midea CAC met all requirements by providing V4+K series VRF and freshening air processing indoor units.



11

## Provincial Inspectorate of Environmental Protection

- 🌐 Country: Poland
- 📍 City: Krakow
- 🏠 Outdoor Units: V4+W series VRF
- 🏠 Indoor Units: Cassette
- 🔋 Total Capacity: 336kW







12

## Cambodia Government Communication Building

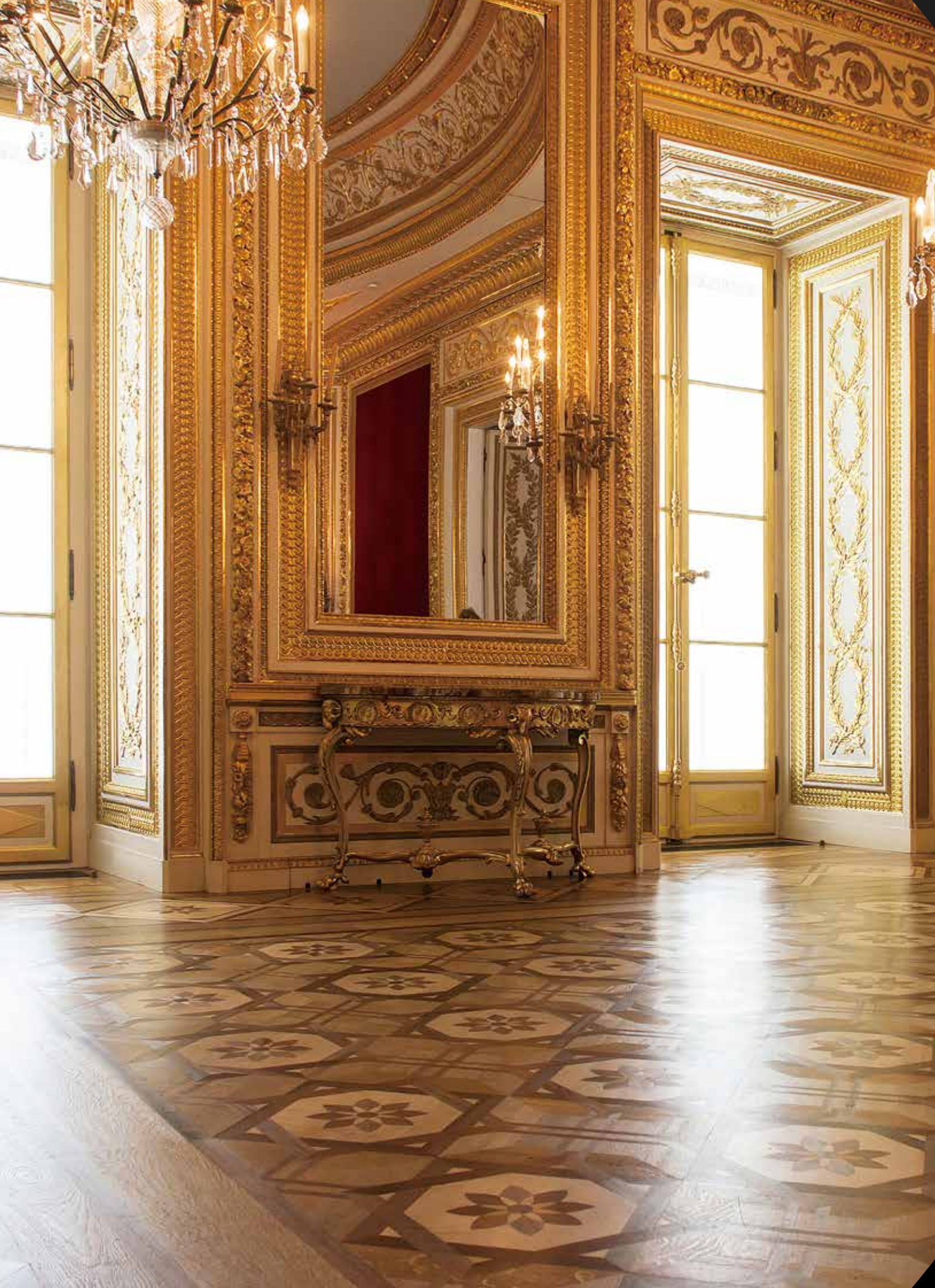
- 🌐 Country: Cambodia
- 📍 City: PHNOM PENH
- 🏠 Outdoor Units: V4+ series VRF, Precision A/C
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,180HP



Midea has provided Cambodia Government Information Building with about hundreds of Precision A/Cs for server rooms and hundreds of VRFs for the office building area, reaching the capacity of 1,180HP. Through insisting the "energy-saving and environment-friendly" principle, the Midea Precision AC has the new-level standard of product energy efficiency, saving much operation cost; at the same time, the new-generation intelligent control technology can reach a temperature control precision of  $\pm 0.5^{\circ}\text{C}$ , a humidity control precision of  $\pm 3\%$ , ensuring the best stable operation state of the telecommunication equipment. Owing to the excellent energy-saving performance and high reliability, Midea won the cooperation with Cambodian biggest telecommunication enterprise project and governmental project.











# REFERENCE PROJECTS

# CULTURE

# FACILITIES



/ Innovation Culture Center

/ Winter Palace

/ Maybank Performing Arts Theatre

/ The Culture Center in Jasło

/ National Theatre

/ Cinecity Padova



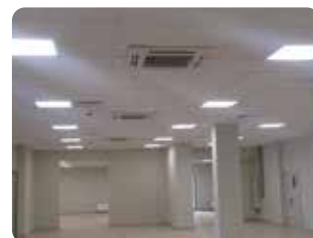




1

## Innovation Culture Center

- 📍 Country: Russia
- 📍 City: Pervouralsk
- 📦 Outdoor Units: V5 X series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 528kW





2

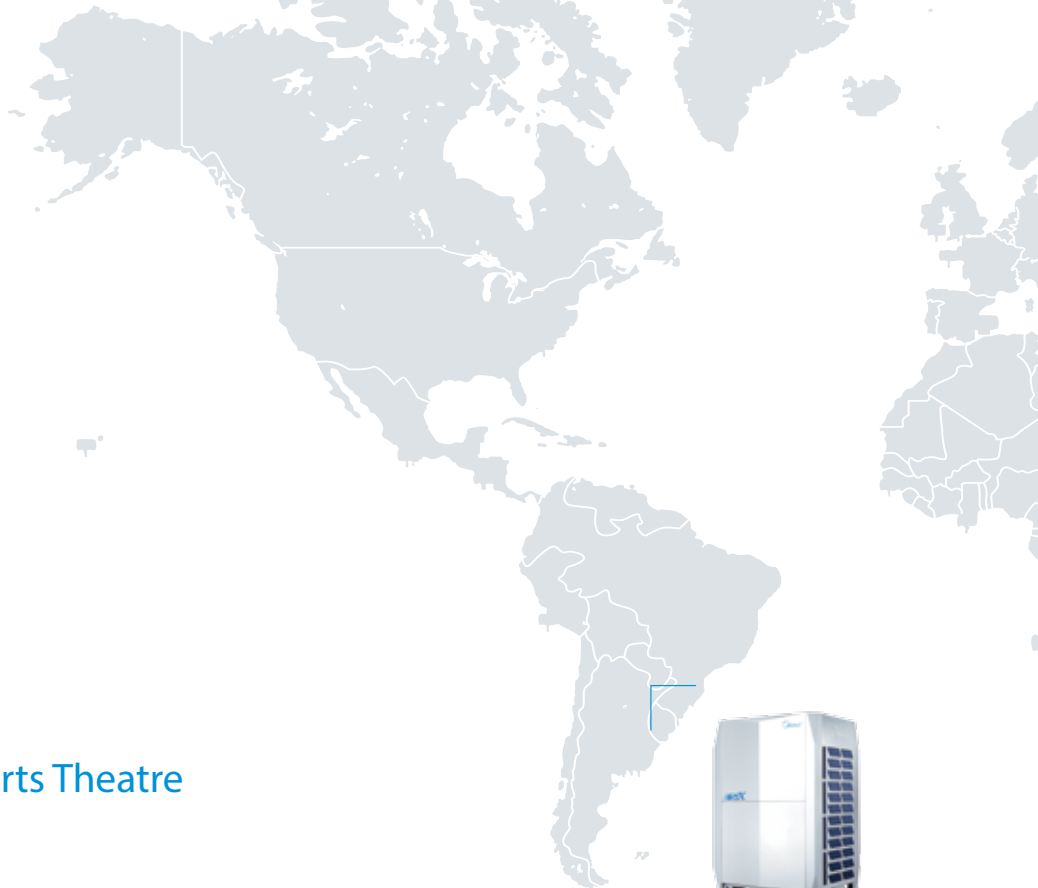
## Winter Palace

- 🌐 Country: Russia
- 📍 City: Saint Petersburg
- 🏠 Outdoor Units: Digital scroll VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 735kW



Winter Palace is one of the four museums in the world with 2.7 million artworks, including paintings created by Leonardo da Vinci and Raphael in Italian Renaissance period. Since 2014, Winter Palace has been maintained and renovated. Midea CAC provided Digital Scroll VRF with total capacity of 735kW. To ensure the outstanding reliability, strict temperature control and humidity and the best airflow management, designers conduct early simulation analysis and strict control on construction process. Meanwhile, the easy installation of Digital Scroll VRF can maximize the protection of the original appearance of Winter Palace.





3

## Maybank Performing Arts Theatre

- 🌐 Country: Philippines
- 📍 City: Manila
- 🏢 Outdoor Units: V5 X series VRF
- 🏠 Indoor Units: Duct
- 🕒 Total Capacity: 400HP







## The Culture Center in Jasko

Philippines

Poland

- Country: Poland
- City: Jasko
- Outdoor Units: V5 X series VRF
- Indoor Units: Duct & Cassette
- Total Capacity: 300kW

5

# National Theatre

- Country: Russia
- City: Moscow
- Product: Spinchiller units with free cooling





6

## Cinacity Padova

🌐 Country: Italy

📍 City: Limena, Padova

📦 Product: Rooftop high efficiency heat pump

The Cinacity at Limena has always been one of the largest and most modern multiplex cinemas in Italy. Thanks to the services on offer and the specific range of technologies, such as Dolby Digital 3D projection, it is also one of the biggest success stories in Italy. In 2010 the Cinacity chain was taken over by the Space Cinema Group, controlled by the investors Benetton and Mediaset.

As in the previous Cinacity projects, a decentralized all-airclimate control system was again chosen for the entire building, based on reversible heat pump rooftop units.

Each of the 14 auditoriums adopts units designed especially for places with high occupancy, able to handle up to 70% outside air for the necessary exchange. The amount of outside air supplied is regulated automatically according to the effective needs measured by the integrated CO<sub>2</sub> airquality probe. The equipment also includes fans with electronic control of the air flow rate, automatic free cooling and active and high-efficiency thermodynamic energy recovery from the exhaust air. The air conditioned by the units is distributed in the building via galvanized steel ducts installed in the double ceiling and fed into the rooms via circular diffusers with helicoidally pattern, adjustable according to the height and depth of the throw required. The air is recovered in the lower area behind the screen.

A similar solution was adopted for the foyer, box office, bar and cafeteria, except for the units which are designed especially for areas with average occupancy. The air is distributed via exposed pipes with eye-catching decorations and diffused via diffusers of different geometrical structures.

The corridors leading to the auditoriums and projection rooms are also climate controlled with similar units which condition a mixture of outside air and recycled air without an exhaust fan. The over pressure air, equal to the intake of outside air, is recovered in the service areas on the various levels, while in the projection rooms area it is aspirated and expelled by fans installed on the projection machinery.

The specially designed Clivet system maintains regular control of temperature, humidity and air quality in the auditoriums, with a concentration of carbon dioxide lower than 1,000 parts per million thanks to the efficient air exchange regulation system. Audience comfort is also guaranteed by the very low noise levels of the system both inside and outside.

Decentralization of the system allows local production of cooling or heating energy, only when and where it is needed and autonomously in the various areas. Alongside the high energy efficiency of the single units, this allows a saving in primary energy of over 40% compared to a central hydronic system.

Thanks to the heat pump technology the same system is used throughout the year, avoiding the need to construct a central heating unit with the related costs and red tape. The high efficiency has also reduced energy consumption, leading to a pleasing improvement in the operating result.









# REFERENCE PROJECTS OFFICES

/ Midea Headquarter Building

/ King Road Tower

/ Zanevski Business Center

/ Colinas Corporate Tower

/ Santa Cruz UBS in Bolivia

/ Cameroon FEICOM Office Building

/ CEO Offices

/ NA ZJE~ DZIE Office Building

/ KPIT Cummins

/ Lanco Hill Group

/ World Trade Center

/ BLIP Building

/ Caguas Colicium

/ ALDAR Headquarter



1

## Midea Headquarter Building

- 🌐 Country: China
- 📍 City: Foshan
- 🏢 Outdoor Units: V4+ series VRF & Centrifugal chiller & Water-cooled screw chiller
- 🕒 Total Capacity: 3,700RT
- 📅 Completion Year: 2010







2

## King Road Tower

- 🌐 Country: Saudi Arabia
- 📍 City: Jeddah
- 🏢 Outdoor Units: Centrifugal chiller
- 📊 Total Capacity: 1,100RT
- 📅 Completion Year: 2017



King Road Tower is a 34-storey office tower that is located in Jeddah, Saudi Arabia. It is the most famous office building in Jeddah. As a landmark in Saudi Arabia, King Road Tower has put high requirements on energy efficiency and stable operation status. Midea centrifugal chiller was delivered in 2011 and has been kept for 6 years in our client warehouse. On April 2017, it has been put into commissioning and until now, there are no errors or problems indicated and Midea centrifugal chiller won a great reputation from the owner.



07 OFFICES

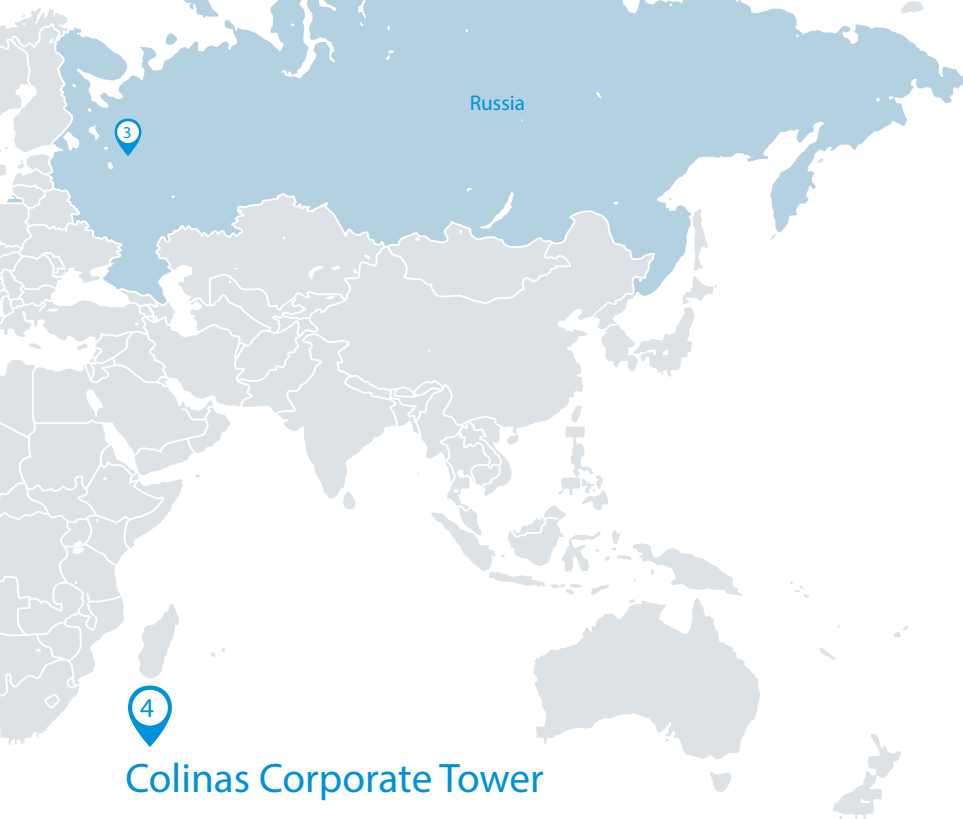


3

## Zanevski Business Center

- 📍 Country: Russia
- 📍 City: Saint Petersburg
- 📦 Outdoor Units: V5 X series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 367kW





Russia

4

## Colinas Corporate Tower

- 🕒 Country: Brazil
- 📍 City: SÃO JOSÉ DOS CAMPOS
- 🏠 Outdoor Units: V4+S series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 1,500HP



07 OFFICES



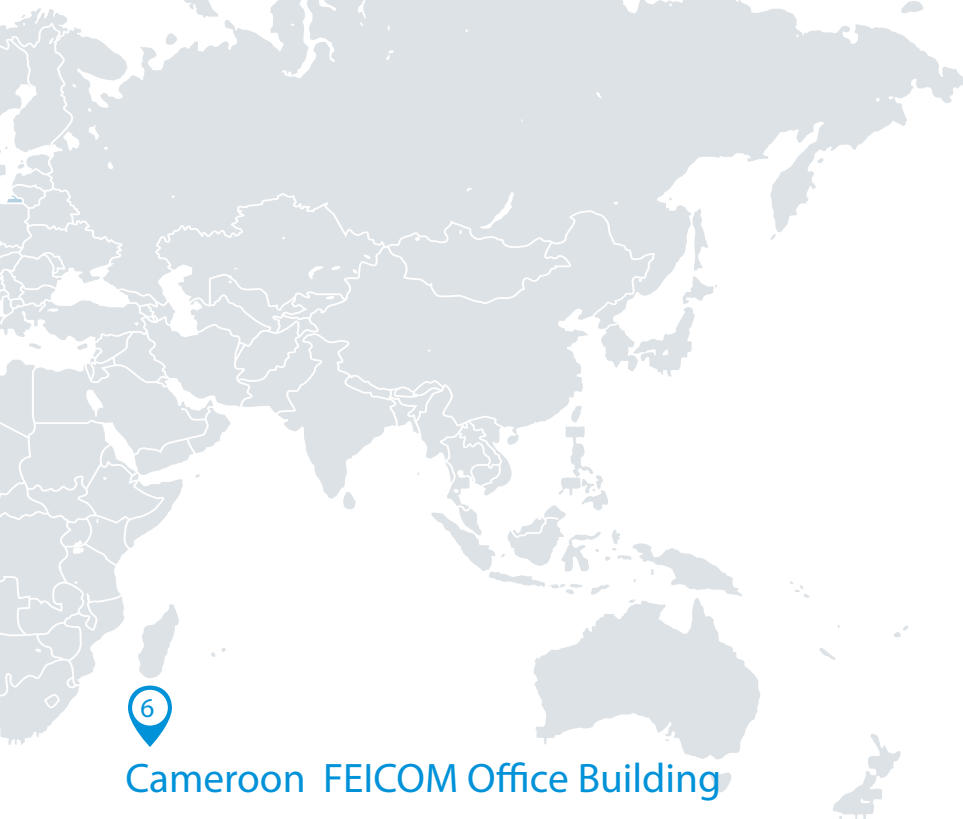


5

## Santa Cruz UBS in Bolivia

- 📍 Country: Bolivia
- 📍 City: Santa Cruz
- 📦 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 266HP





6

## Cameroon FEICOM Office Building

- 🌐 Country: Cameroon
- 📍 City: Yaounde
- 🏢 Outdoor Units: V4+K Series VRF
- 🏠 Indoor Units: Duct
- 📅 Completion Year: 2016



07 OFFICES



7

## CEO Offices

- 🌐 Country: Brazil
- 📍 City: Rio de Janeiro
- 🏢 Outdoor Units: V4+W series VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,100HP



V4 Plus W system is an air conditioning system with no water pipes installed indoors and no water leakage risk. Compared with the air-cooled VRF, water-cooled VRF has its own features.

Firstly, V4 Plus W Series has no outdoor fan, closed design, lower noise.

Secondly, the water's heat exchange efficiency is much higher than air, so its EER and IPLV is much higher than air-cooled unit.

Lastly, there is less limitation for installation space. As you know, for air-cooled system, we need to install them in the place with well-ventilated.

In modern large-scale buildings, the load between the internal and external areas is different. It may occur in some situations that both cooling and heating are required. The V4 Plus W Series not only can achieve meticulous system division in different areas but also can recover heat at the same time, significantly improving energy efficiency.





8

## NA ZJEZDZIE Office Building

- 🌐 Country: Poland
- 📍 City: Krakow
- 🏢 Outdoor Units: 3-pipe heat recovery VRF
- 🏠 Indoor Units: Wall-mounted
- 📊 Total Capacity: 744kW



07 OFFICES



9

## KPIT Cummins

- 📍 Country: India
- 📍 City: Pune
- 📦 Outdoor Units: Digital scroll VRF
- 🏠 Indoor Units: Duct & Cassette & Wall-mounted
- 📊 Total Capacity: 2,050HP





10

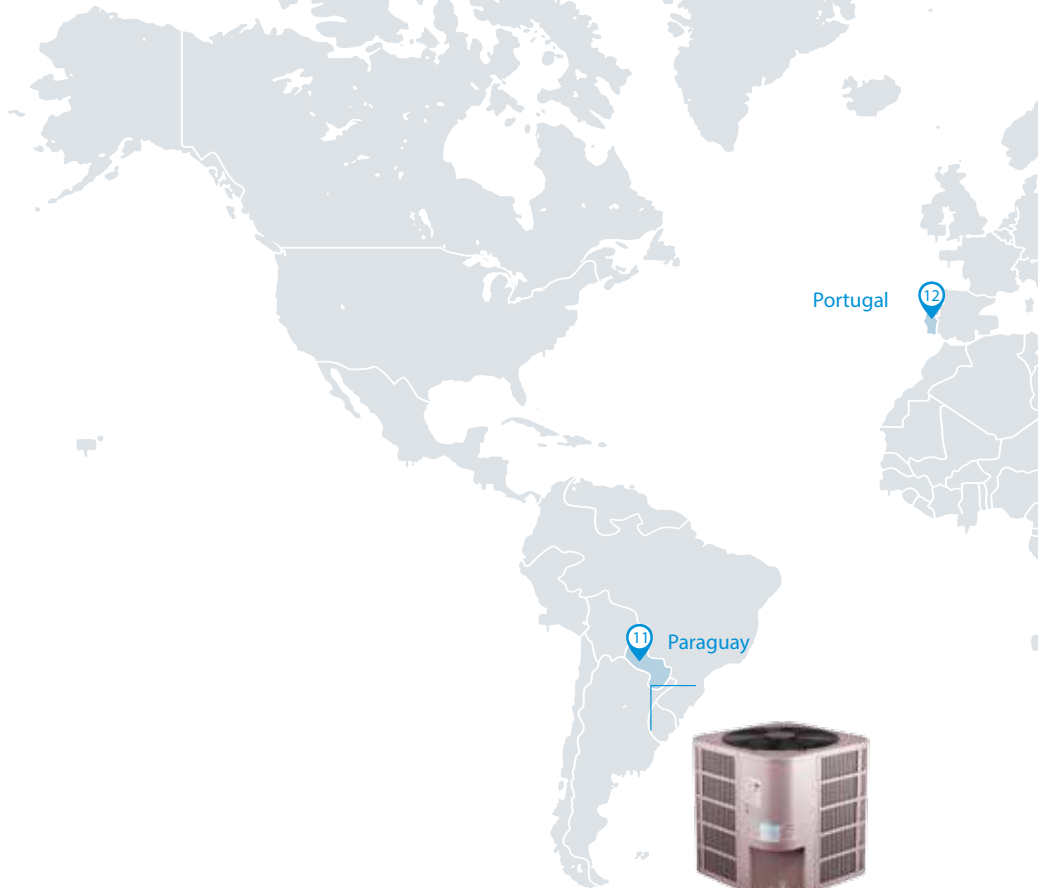
## Lanco Hill Group

- 🌐 Country: India
- 📍 City: Hyderabad
- 🏢 Outdoor Units: Air-cooled screw chiller
- 📏 Total Capacity: 200RT
- 📅 Completion Year: 2008



07 OFFICES



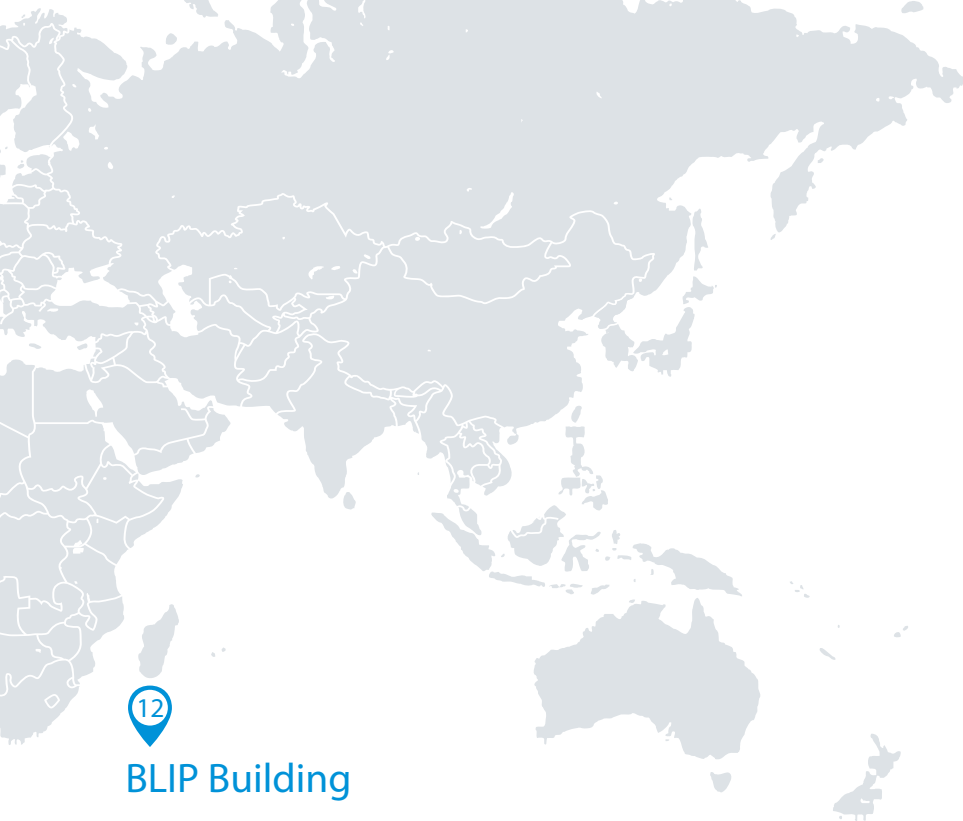


11

## World Trade Center

- 📍 Country: Paraguay
- 📍 City: Asuncion
- 🏢 Outdoor Units: Condensing Units
- 🏠 Indoor Units: AHU
- 📊 Total Capacity: 1,870RT





12

## BLIP Building

🌐 Country: Portugal

📍 City: Porto

🏠 Outdoor Units: V5 X Series VRF & Mini VRF

🏠 Indoor Units: Duct & Cassette & Wall-mounted



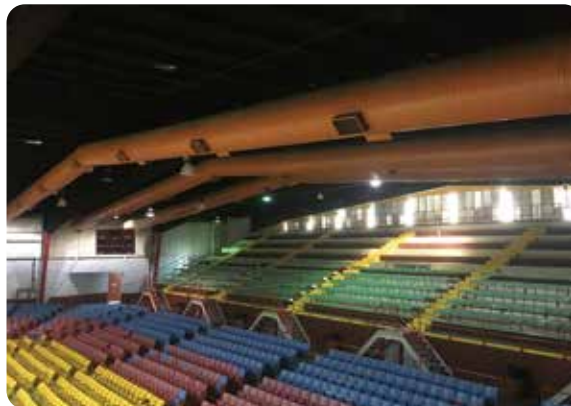
07 OFFICES



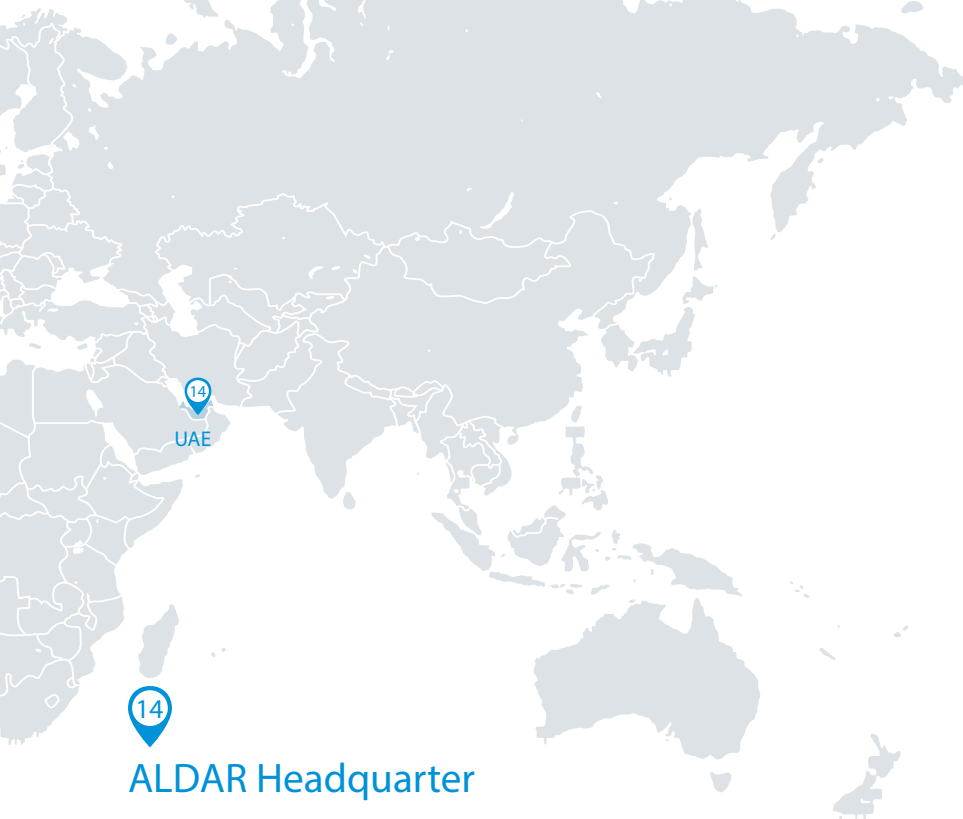
13

## Caguas Coliseum

- 📍 Country: Puerto Rico
- 📍 City: San Juan
- 🏢 Outdoor Units: V5 X Series VRF
- 🏠 Indoor Units: Duct & Cassette & Wall-mounted
- 🔋 Total Capacity: 450kW







## 14 ALDAR Headquarter

- Country: UAE
- City: Abu Dhabi
- Products: Air handling units

Aldar Headquarters is the first round building in Middle East. Known as “The Big Seashell”, it will host the headquarters of the biggest real estate company in Abu-Dhabi and of other very important multinational companies operating in the area. Aldar Headquarters is included in the Al Raha Beach Development, the development project of over 14 billion dollars of the new urban district of Abu Dhabi. The whole building looks like a large glass lens exposed to the Abu Dhabi desert climate with summer day temperature that can exceed 40° C. These challenging conditions and the high internal loads, make necessary the use of high performance and reliability air conditioning systems.

The unusual architecture, a strong constraint since the project phase, has made impossible to use outdoor spaces for the equipment. For aesthetic and visual integration, just very small internal spaces have been dedicated to the service rooms.

The contractor required also total quality of the air and maximum acoustic comfort. The big flexibility in the distribution of internal spaces would have been an awarding factor when selling the available surfaces.

Aldar Headquarters uses very big hydronic air handling units for the air conditioning of all central and perimeter areas. All machines are placed in two separated areas on the first twenty-second floor. Each unit can handle up to 80,000 cubic meters of air, filtering, cooling and dehumidifying the fresh and return air according to the different area needs.

The variable airflow type (VAV) distribution system is controlled by a supervision system through inverter. The remaining back-of-house areas are served by over 80 hydronic fan coil units installed in the ceiling. The whole system is predisposed to provide supplementary chilled water, fresh air and exhaust system in order to be adapted to further individual needs.

Thanks to the design choices, the air conditioning system is invisible from the outside and fully integrated into the architecture. Despite the high performance requested to the air handling units and their consequent large size, the air handling units perfectly fitted to the small technical available spaces. Their modularity and to the technical and the constructive solutions adopted for a proper maintenance made it possible.





# REFERENCE PROJECTS

## RESIDENTIAL BUILDINGS

/ Ain Al Fayda Emirati Housing Development-5000 Villas

/ Forest City Johor in Malaysia

/ Saraya Aqaba Project

/ Garden City

/ Algiers Holiday Bungalow

/ Royal City

/ Time City

/ Ciputra world 2 apartment







1

## Ain Al Fayda Emirati Housing Development-5000 Villas

- 📍 Country: UAE
- 📍 City: Al Ain
- 🏠 Outdoor Units: Tropical digital scroll VRF
- 🏠 Indoor Units: Wall-mounted & Cassette
- 🔋 Total Capacity: 80,000HP



Located in the hottest place with the high temperature of 48°C (118.4°F), Ain Al Fayda villas have terrible climate conditions. In order to establish a comfortable indoor climate, Midea CAC provided digital scroll VRF for the air conditioner project. The VRF system operates stably under extreme conditions, ranging from minus 15°C to 54°C in cooling mode and minus 15°C to 24°C in heating mode.





UAE

Malaysia

2

## Forest City Johor in Malaysia

🕒 Country: Malaysia

📍 City: Selangor

🏢 Outdoor Units: V5 X series VRF & Water-cooled screw chiller

🕒 Total Capacity: 5,000kW

📅 Completion Year: 2016



Forest City is Country Garden's largest real estate project outside China, which bodes well with the Group's internationalization strategy to expand business overseas. It is characterized by its environment-friendly concept that will be built on four man-made islands with an area of 14 million square meters, over 9 phases for a period of 20 years, set to be one of the largest real estate development projects in Asia in terms of numbers of property units to be developed. As for the amenities, by the end of 2016, Forest City will be expecting its first duty-free shopping mall at the Fisherman's Wharf on Island 1, which will carry a wide range of international leading brands and products. Midea supplied numbers of VRF products for offices and hotels in Fisherman's Wharf and two water-cooled screw chillers for sales office. The total capacity is up to 5,000 kW.



3

## Saraya Aqaba Project

🌐 Country: Jordan

📍 City: Aqaba

🏠 Outdoor Units: Tropical V4+S series VRF

🏠 Indoor Units: Duct & Cassette

🔊 Total Capacity: 746HP



Saray Aqaba is a premier hospitality and leisure destination comprised of approximately 634,000 m<sup>2</sup> of master planned development to be built around a 1.5 kilometer lagoon with world-class hotels, signature retail shops, international restaurants, a water park, beach club and amphitheater.

Midea CAC is proud to provide advanced systems and legacy of innovation to this exciting project. We're pleased to support Saraya Aqaba with our strong record and proven technologies. The project is located along the shores of the Red Sea, where the temperature remains high all the year round. Besides, it has a high requirement on anticorrosion. Midea CAC certainly solved all the problems by providing our tropical V4+S series VRF.







4

## Garden City

🌐 Country: Iraq

📍 City: Sulaymaniyah

🏠 Outdoor Units: Tropical VRF & Mini VRF

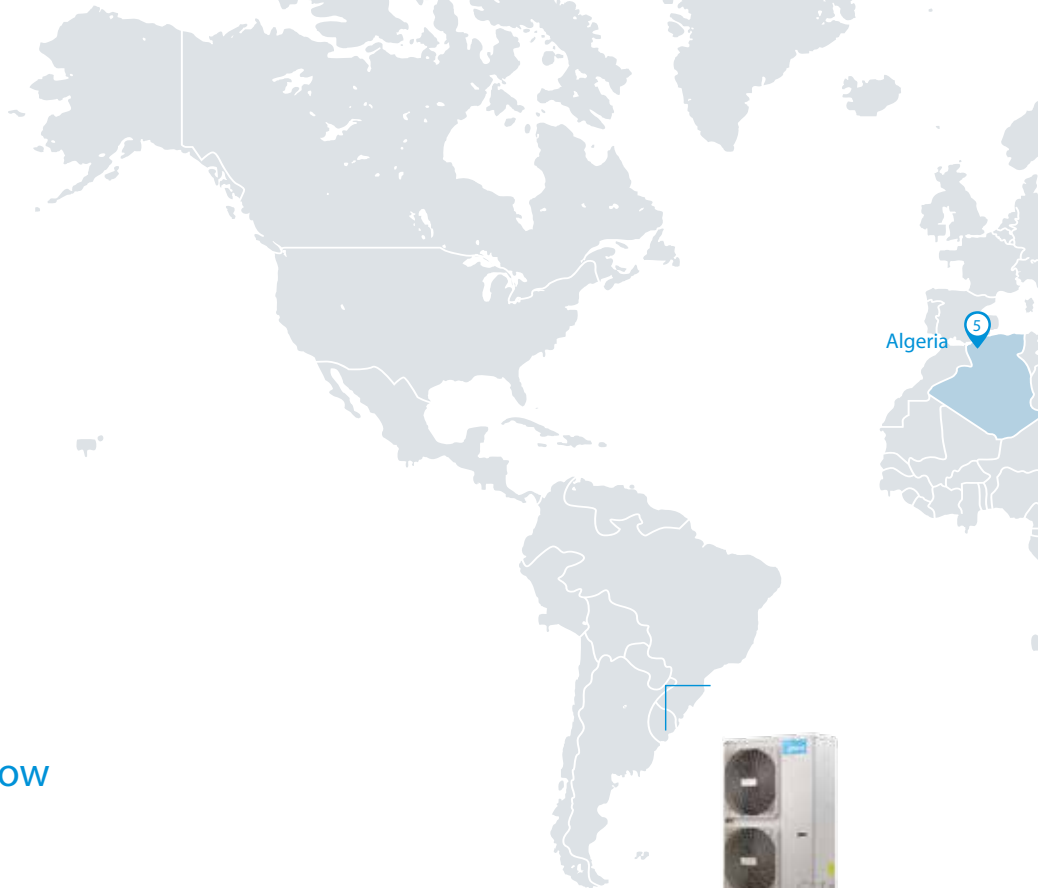
🏠 Indoor Units: Duct & Cassette & Wall-mounted

🔊 Total Capacity: 6,400HP



Iraq is surrounded on four sides by deserts and mountains and mainly features tropical desert climate with oppressive heat and aridity during the period of June to September and 1 millimeter average monthly rainfall. Situated in the northeast of Iraq, Sulaymaniya has a highest temperature per month up to more than 40 degrees Celsius in summer. Due to the local climate, Midea CAC provided tropical VRF with wired control and remote control systems. We characterize strong wind and steady refrigeration, hence the cool breeze in hot summer for local people.





5

## Algiers Holiday Bungalow

- 🌐 Country: Algeria
- 📍 City: Algiers
- 🏠 Outdoor Units: Mini VRF
- 🏠 Indoor Units: Duct & Cassette & Wall-mounted
- 📅 Completion Year: 2016



Algiers holiday bungalow is located in Algeria, which has 380 villas and the total area is 30000 m<sup>2</sup>. All the home appliances in this project adopt Midea products, including air conditioners, refrigerator, washing machine, microwave oven, Induction cooker and so on. Midea CAC mainly applied mini VRF in this project. Our technical engineers also provided commissioning and installation guidance from beginning to end.





6

## Royal City

🌐 Country: Vietnam

📍 City: Hanoi

🏢 Outdoor Units: V4+ series VRF

🏠 Indoor Units: Duct type

🔊 Total Capacity: 1,580HP





7

## Time City

- 🌐 Country: Vietnam
- 📍 City: Hanoi
- 🏢 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct type
- 🔋 Total Capacity: 1,700HP





8

## Ciputra world 2 apartment

- 🕒 Country: Indonesia
- 📍 City: Jakarta
- 🏢 Outdoor Units: V4+K series VRF, Mini VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 2,050RT









# REFERENCE PROJECTS

## INDUSTRY



- / KUKA Robotics in Hungary
- / Semiconductor Factory in Philippines
- / Three Gorges First Wind Farm Pakistan Limited
- / Zetes Power Station
- / Alkaloida Chemical Company Exclusive Group in Hungary
- / Bali Power Station
- / Brotex Factory
- / Worldon Factory in Vietnam
- / Singapore Hyflux Tuaspring Desalination Plant
- / Gain Lucky
- / Meiko Factory
- / Top Glove in Malaysia
- / Kossan Glove
- / Swire Coca-Cola Beverages Limited
- / Swedish Match
- / Angola Cement Plant
- / Costra Factory
- / Vietnam Vinh Tan Factory
- / Hub Power Station
- / Pakistan Patrind Hydro Power Plant





1

## KUKA Robotics in Hungary

- 🌐 Country: Hungary
- 📍 City: Füzesgyarmat
- 🏢 Outdoor Units: Air-cooled scroll chiller
- 🏠 Indoor Units: FCU & AHU
- 🕒 Total Capacity: 715kW





2

## Semiconductor Factory in Philippines

🌐 Country: Philippines

📍 City: Manila

🏠 Outdoor Units: V5 X series VRF

🏠 Indoor Units: Duct & Cassette

📊 Total Capacity: 1,176HP



The Cirtek project is a semiconductor factory lying in Philippines and it is also the first local V5X series VRF project after forming JV Company in Philippines. The factory provides chips and other hardware for worldwide communication equipment companies. For the present time, there are 4 phases of construction with the estimated capacity of 4,500 HP and the first phase is about 1,176 HP. In order to provide the suitable solution for the project, Midea CAC applied the fresh air treatment design and also took advantage of the biggest 88 HP combination capacity of V5X. Besides, owing to high COP & IPLV and cool appearance of V5X compared with our competitors, we successfully won the first phase of the project at the end of 2015. Midea CAC also provided professional installation and commissioning guidance in order to guarantee normal operation.





3

## Three Gorges First Wind Farm Pakistan Limited

- 📍 Country: Pakistan
- 📍 City: Sindh
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 494HP



Pakistan is located in the interchange of "One Belt, One Road" with a high requirement on clean energy. As a leading enterprise in China, Three Gorges First Wind Farm Pakistan Limited regards Pakistan as a key strategic investment market and spares no efforts developing clean energy industry. This is the first wind power project Chinese enterprises have invested in Pakistan with the total investment of about 130 million US dollars. The annual power generation reaches 140 million kWh. Midea CAC provided HVAC solutions with support of high quality products and comprehensive after-sales services. Through the close negotiations, Midea CAC finally won the bid and provided digital scroll VRF with the total capacity of 494 HP.





4

## Zetes Power Station

- 🕒 Country: Turkey
- 📍 City: Zonguldak
- 🏢 Outdoor Units: Precision A/C, VRF, Air-cooled modular chiller
- 🏠 Indoor Units: Duct & Cassette, AHU
- 🔋 Total Capacity: 500HP



09 INDUSTRY



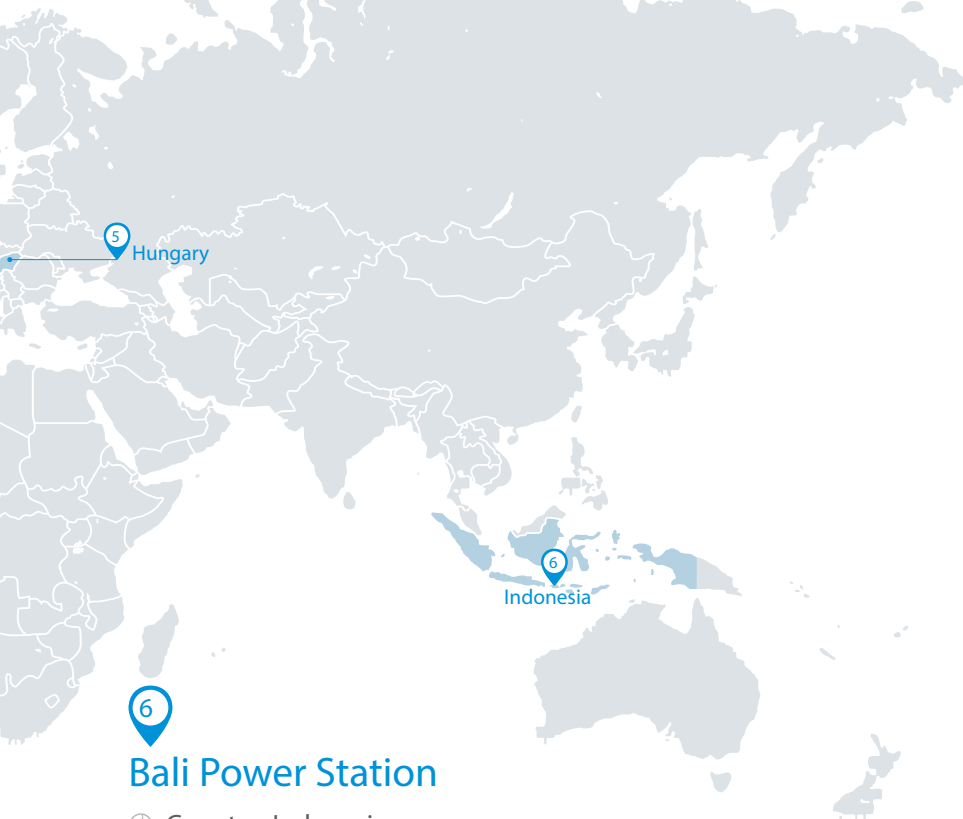
5

## Alkaloida Chemical Company Exclusive Group in Hungary

- 🌐 Country: Hungary
- 📍 City: Tiszavasvári
- 🏠 Outdoor Units: Air-cooled scroll chiller
- 🏠 Indoor Units: FCU & AHU
- 🕒 Total Capacity: 1,300kW







6

## Bali Power Station

- 🌐 Country: Indonesia
- 📍 City: Bali
- 🏠 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 238HP



09 INDUSTRY



7

## Brotex Factory

- 🕒 Country: Vietnam
- 📍 City: Tay Ninh
- 🏢 Outdoor Units: Water-cooled screw chiller
- 🔋 Total Capacity: 3,310HP
- 📅 Completion Year: 2013





8

## Worldon Factory in Vietnam

- 📍 Country: Vietnam
- 📍 City: Ho Chi Minh
- 🏢 Outdoor Units: Centrifugal chiller & Water-cooled screw chiller
- 🏢 Indoor Units: FCU & AHU
- 📊 Total Capacity: 4,500RT



09 INDUSTRY



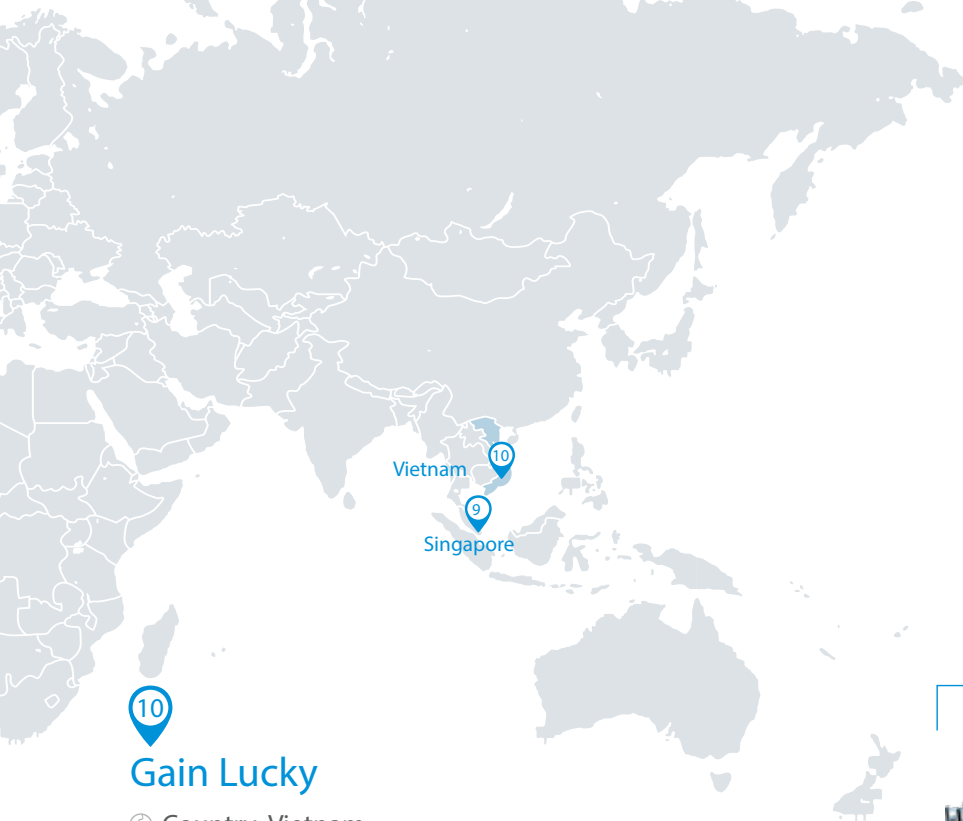


9

## Singapore Hyflux Tuaspring Desalination Plant

- 📍 Country: Singapore
- 📍 City: Tuas
- 🏢 Outdoor Units: V4+ Series VRF
- 🏢 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 900HP





10

## Gain Lucky

📍 Country: Vietnam

📍 City: Ho Chi Minh

🏢 Outdoor Units: Centrifugal chiller & Water-cooled screw chiller

📊 Total Capacity: 3,800RT



09 INDUSTRY







# REFERENCE PROJECTS

# EDUCATION



/ King Abdullah University of Science and Technology

/ Komar University

/ Muscat University

/ University of Kirkuk

/ The University of Georgia

/ Sanbeda College in Philippines

/ CT University

/ International College of Automotive in Malaysia

/ Harran University

/ Sudan National Petroleum Laboratory

/ Sudan National Telec Bureau

/ University of Bergen





1

## King Abdullah University of Science and Technology

- 🌐 Country: Saudi Arabia
- 📍 City: Jeddah
- 🏢 Outdoor Units: V5 X Series VRF
- 🏠 Indoor Units: Duct & Cassette
- 📅 Completion Year: 2016





2

## Komar University

- 🌐 Country: Iraq
- 📍 City: Sulaymaniyah
- 🏢 Outdoor Units: Air-cooled screw & scroll chiller
- 🏢 Indoor Units: FCU & AHU
- 📊 Total Capacity: 2,350kW







3

## Muscat University

- 🌐 Country: Oman
- 📍 City: Muscat
- 🏢 Outdoor Units: Digital scroll VRF
- 🏠 Indoor Units: Duct type
- 📊 Total Capacity: 2,000HP



Founded in year 1996, Muscat University is one of the oldest private universities in Oman. Muscat University is well known for the quality of its academic programs and supporting facilities and services, which aim at providing students with a true university education. In this year, Midea provided digital scroll VRF for Muscat University including laboratories, libraries, teaching buildings, dormitory buildings and so on. The total capacity is up to 2,000HP.



4

## University of Kirkuk

- 🌐 Country: Iraq
- 📍 City: Kirkuk
- 🏢 Outdoor Units: Digital scroll VRF & Rooftop packaged unit
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 2,370HP



10 EDUCATION



5

## The University of Georgia

- 🌐 Country: Georgia
- 📍 City: Tbilisi
- 🏢 Outdoor Units: Water-cooled screw chiller
- 🏠 Indoor Units: FCU
- 🔋 Total Capacity: 1,200kW







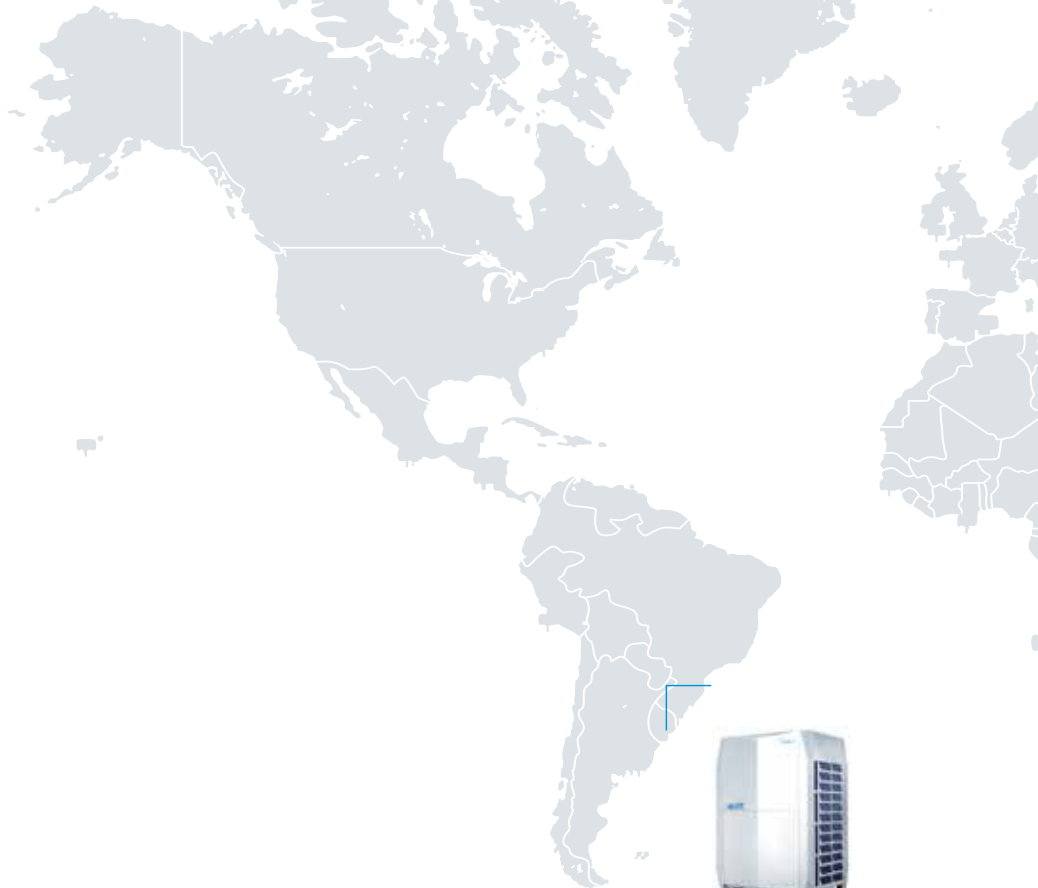
6

## Sanbeda College in Philippines

- 🌐 Country: Philippines
- 📍 City: Manila
- 🏠 Outdoor Units: V5 X Series VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 610HP



10 EDUCATION



7

## CT University

- 🌐 Country: India
- 📍 City: Ludhiana
- 🏢 Outdoor Units: V5 X Series VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,332HP





8

## International College of Automotive in Malaysia

- 🌐 Country: Malaysia
- 📍 City: Pekan
- 🏠 Outdoor Units: V4+ Series VRF, Air-cooled screw chiller
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,000HP (VRF), 2,400kW (Chiller)





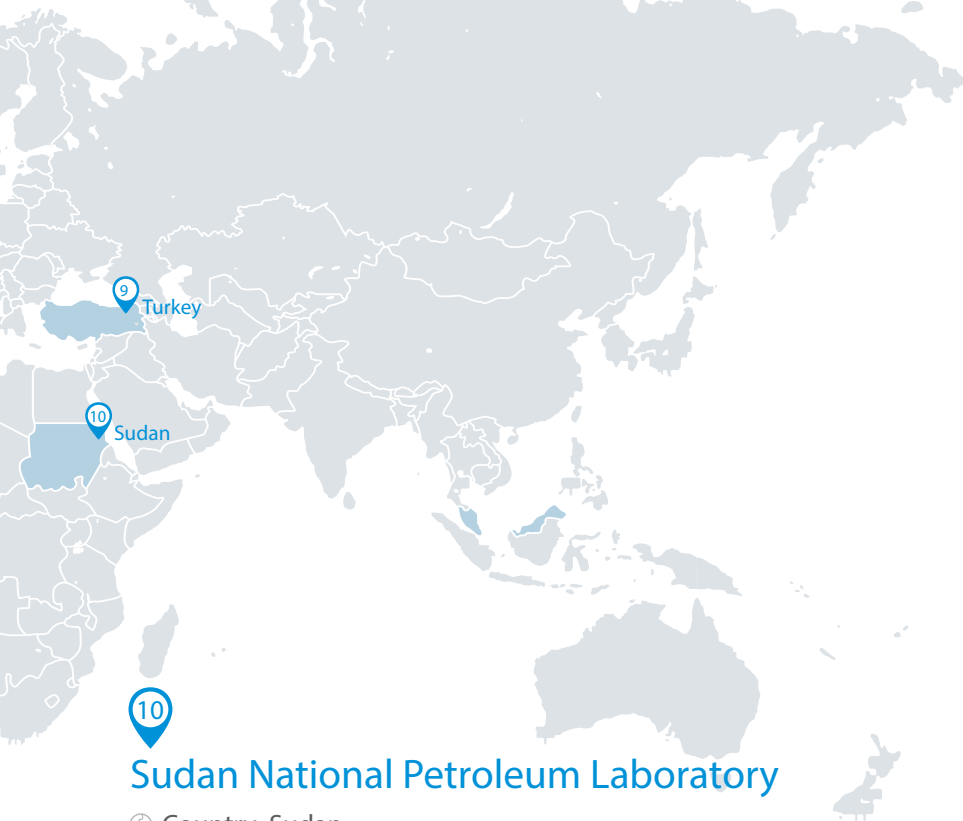


9

## Harran University

- 📍 Country: Turkey
- 📍 City: Sanliurfa
- 🏢 Outdoor Units: Centrifugal chiller
- 🏢 Indoor Units: FCU & AHU
- 📊 Total Capacity: 3,000RT





10

## Sudan National Petroleum Laboratory

- 🌐 Country: Sudan
- 📍 City: Khartoum
- 🏠 Outdoor Units: Tropical air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 1,200kW

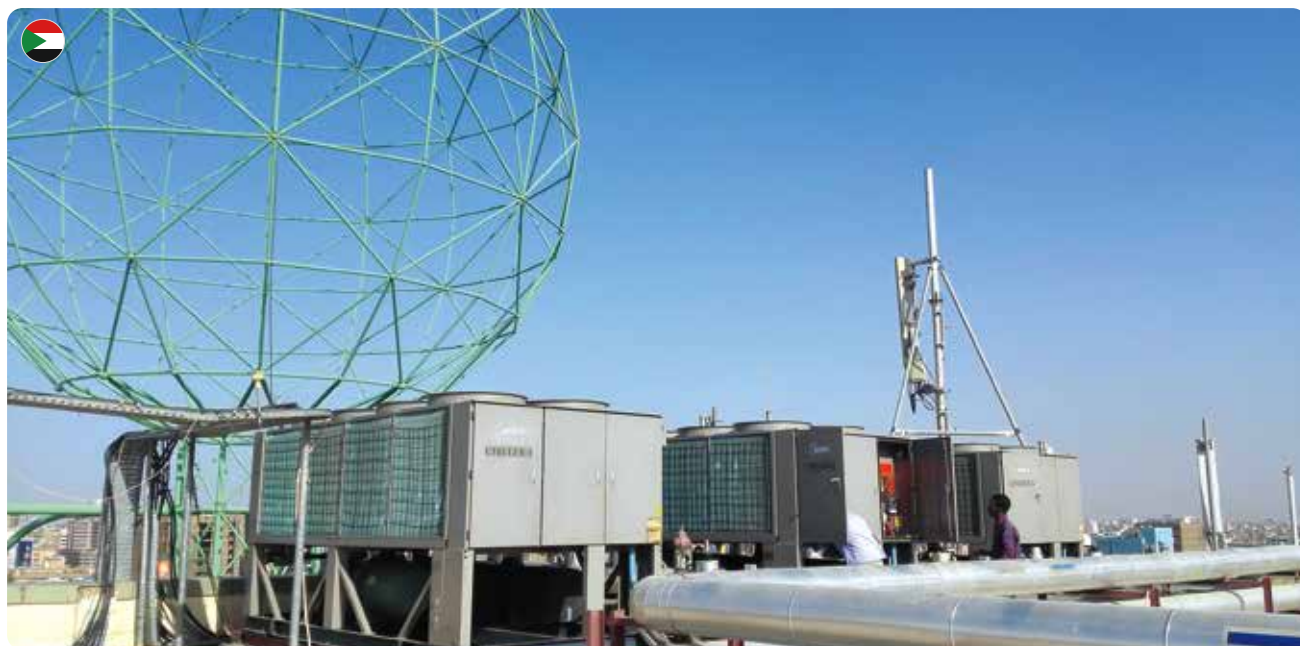


10 EDUCATION

11

## Sudan National Telec Bureau

- 🌐 Country: Sudan
- 📍 City: Khartoum
- 🏢 Outdoor Units: Tropical air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 3,600kW







11

Sudan

12

## University of Bergen

🌐 Country: Norway

📍 City: Bergen

📦 Product: Air-cooled heat pump



10 EDUCATION





# REFERENCE PROJECTS

## HOSPITALS & HEALTHCARE

/ Indriyati Hospital

/ Tarakan Hospital

/ Hospital General Dr Juan Bruno Zayas Alfonso Project

/ 103 Hospital

/ Taiwan Taoyuan Hospital

/ Autism Academy of Jordan

/ Vostok Sanatorium

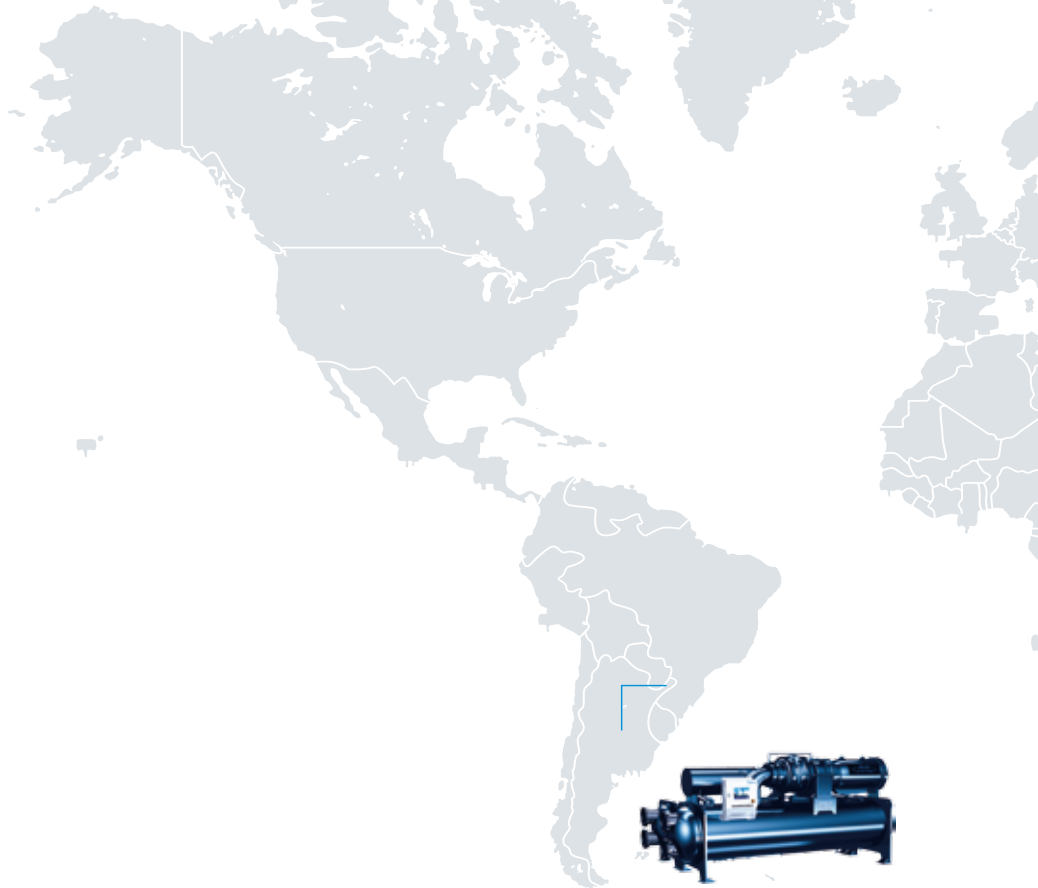
/ VAN Global Hosipal

/ KARASU DEVLET HASTANESI IN TURKEY

/ MRI Center Canovanas

/ SYKEHUSET INNLANDET HOSPITAL





1

## Indriyati Hospital

- 🌐 Country: Indonesia
- 📍 City: Solo
- 🏢 Outdoor Units: Super high efficiency centrifugal chiller
- 🏠 Indoor Units: FCU & AHU & MAHU
- 🕒 Total Capacity: 2,800RT





2

## Tarakan Hospital

🌐 Country: Indonesia

📍 City: Tarakan

🏠 Outdoor Units: V4+ series VRF

🏠 Indoor Units: Duct & Cassette

📊 Total Capacity: 3,870kW





3

## Hospital General Dr Juan Bruno Zayas Alfonso Project

- 🌐 Country: Cuba
- 📍 City: Santiago
- 🏢 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 🔋 Total Capacity: 2,160kW







4

## 103 Hospital

- 🌐 Country: Laos
- 📍 City: Vientiane
- 🏢 Outdoor Units: V4+ series VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,560HP





5

## Taiwan Taoyuan Hospital

- 🌐 Country: China
- 📍 City: Taiwan
- 🏢 Outdoor Units: Inverter direct-drive centrifugal chiller
- 🏠 Indoor Units: FCU & AHU
- 📊 Total Capacity: 500RT



Through building an internationalized R&D team, Midea CAC has overcome various technical bottlenecks and integrated the industrial top technologies and international-advanced sophisticated technologies such as the horizontally back-to-back uniaxial direct-drive centrifugal compression and full falling film evaporation. The inverter direct-drive centrifugal chiller boasts substantial benefits such as less refrigerant charge and lower noise. Also, the operation range is wider with a more compact size. Besides, COP is up to 6.399 and IPLV is up to 10.7 and all the types are under AHRI certification.





6

## Autism Academy of Jordan

- 🕒 Country: Jordan
- 📍 City: Amman
- 🏠 Outdoor Units: V5 X series VRF
- 🏠 Indoor Units: Ceiling & Floor
- 🕒 Total Capacity: 220HP







7

## Vostok Sanatorium

- 📍 Country: Russia
- 📍 City: Vostok
- 📦 Outdoor Units: V5 X series VRF
- 📦 Indoor Units: Duct & Cassette
- 🕒 Total Capacity: 173kW





8

## VAN Global Hosipal

- 🌐 Country: Iraq
- 📍 City: Duhok
- 🏠 Outdoor Units: Digital scroll VRF
- 🏠 Indoor Units: Duct & Cassette
- 📊 Total Capacity: 1,190kW



11 HOSPITALS & HEALTHCARE



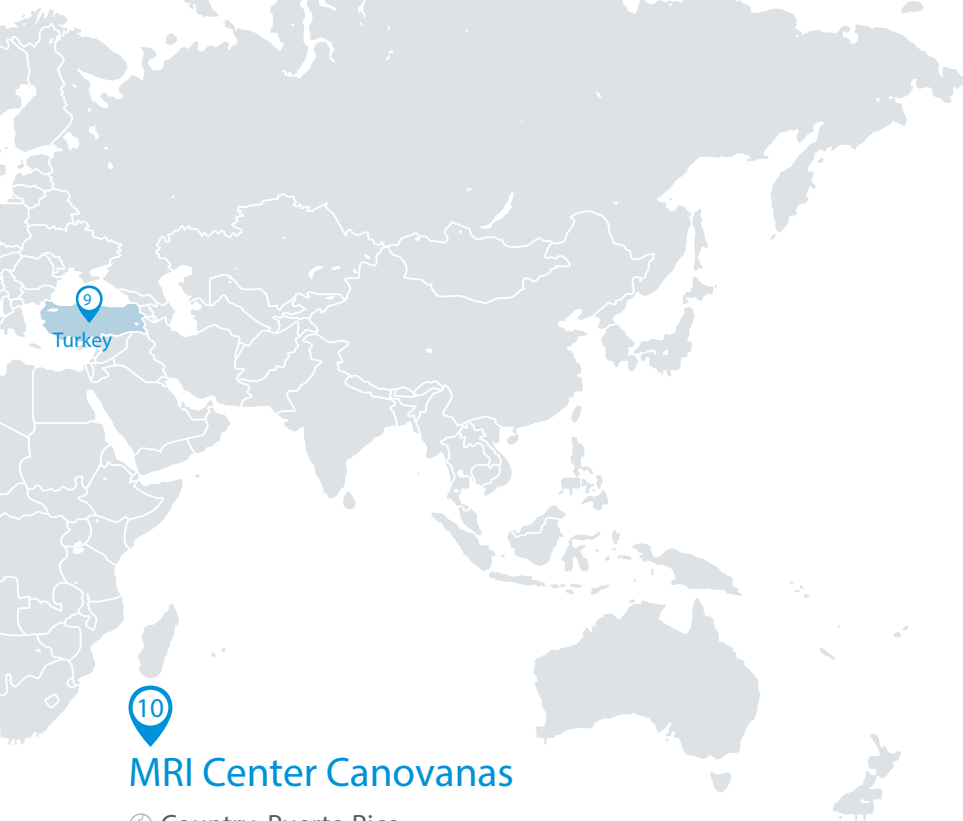
9

## Karasu Devlet Hastanesi In Turkey

- 🌐 Country: Turkey
- 📍 City: Karasu
- 🏢 Outdoor Units: Air-cooled screw chiller
- 🏠 Indoor Units: FCU & AHU
- 📊 Total Capacity: 1,200kW







Turkey

10

## MRI Center Canovanas

🌐 Country: Puerto Rico

📍 City: San Juan

🏠 Outdoor Units: Air-cooled modular chiller

🏠 Indoor Units: MAHU

📊 Total Capacity: 360kW



11 HOSPITALS & HEALTHCARE

Norway

11

## Sykehuset Innlandet Hospital

🌐 Country: Norway

📍 City: Hamar

📦 Product: INDOOR CONDENSERLESS CHILLERS











Transportation



Hotels & Resorts



Governmental  
Projects



Culture Facilities



Residential  
Buildings



Industry



Hospitals & Healthcare



# Midea CAC

Midea CAC is a key division of the Midea Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Midea CAC has continued with the tradition of innovation upon which it was founded, and emerged as a global leader in the HVAC industry. A strong drive for advancement has created a groundbreaking R&D department that has placed Midea CAC at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide. There are four production bases: Shunde, Chongqing and Hefei and Italy.

MCAC Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters, and AHU/FCU.

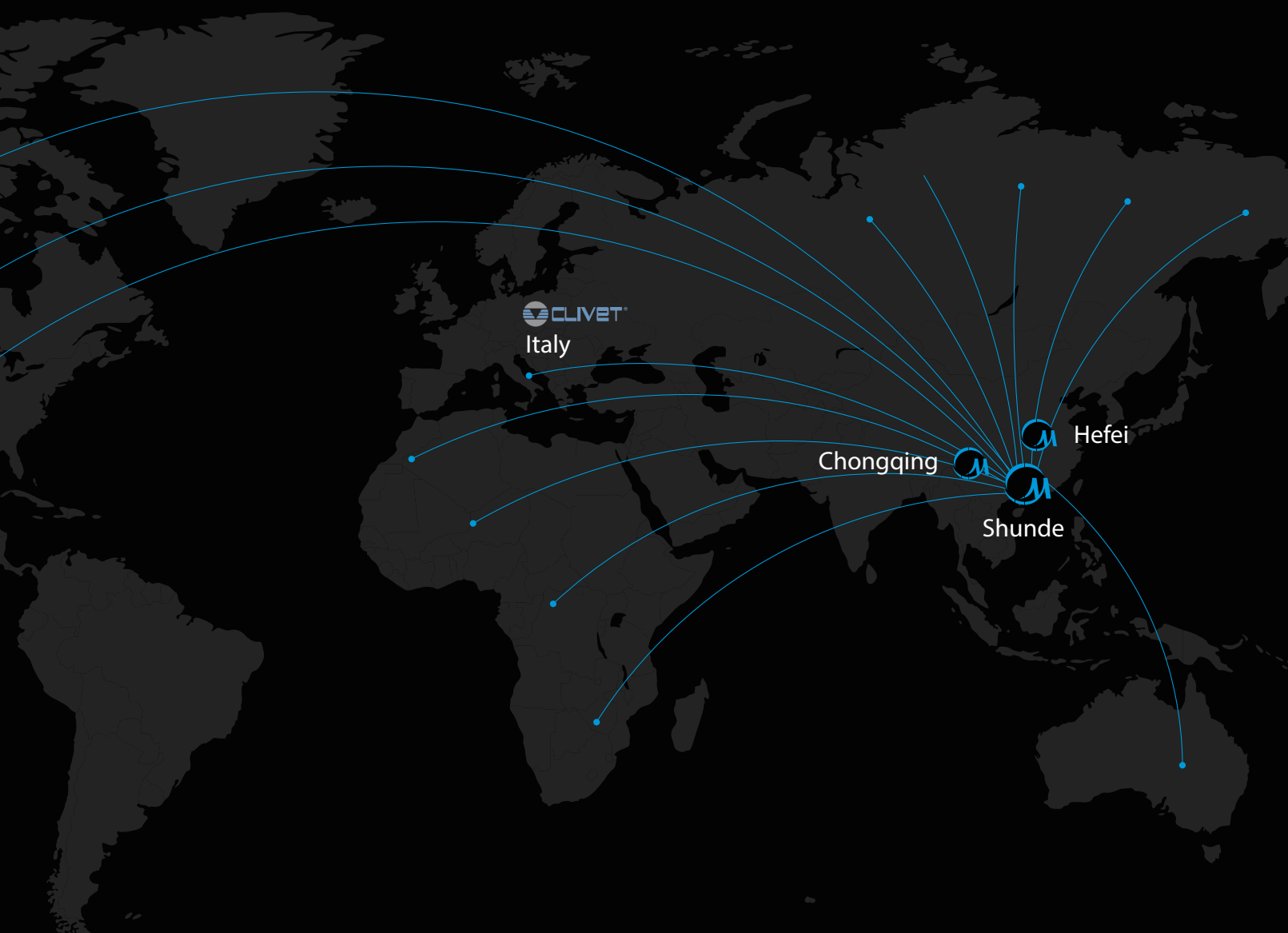
MCAC Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll-Chillers, and AHU/FCU.

MCAC Hefei: 11 product lines focusing on VRF, Chillers, and Heat Pump Water Heaters.

Clivet S.p.A: 50,000 m<sup>2</sup> workshop in Feltre and Verona, covering products such as ELFO system, hydronic, WHLP, packaged, split and close control and so on.

- 
- 2016 Formed strategy alliance with Clivet S.p.A
  - 2015 JV with Carrier in China in chiller field, JV with Bosch in VRF production and Siix in smart control
  - 2014 Launched the All DC Inverter V5X globally
  - 2013 Launched the super high efficiency centrifugal chiller with full falling film technology
  - 2012 Formed Midea-Carrier JV Company in India and HK
  - 2012 Entered the lighting industry
  - 2011 Launched the DC Inverter V4 Plus globally and formed Midea-Carrier JV Company in Brazil
  - 2010 Built the 3rd manufacturing base in Hefei
  - 2009 Launched the DC inverter V4 series VRF
  - 2008 JV with Toshiba Carrier for the DC inverter technology
  - 2007 Won the first Midea centrifugal chiller project overseas
  - 2006 Launched the first VSD centrifugal chiller
  - 2004 Acquired MGRE entered the chiller industry, launched the world's first digital scroll air-cooled heat pump module unit and JV with Toshiba Carrier
  - 2001 Cooperated with Copeland to develop the digital scroll VRF system
  - 2000 Developed the first inverter VRF With Toshiba
  - 1999 Entered the CAC field





CLIVET®  
Italy

Chongqing

Hefei  
Shunde

Midea Company  
Introduction



Midea CAC  
Introduction



Note

Note





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