

INSTALLATION REFERENCE





FUJITSU GENERAL LIMITED

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CREATION OF COMPONENTS

FUJITSU GENERAL have been developing and manufacturing high quality and energy efficient products for more than 57 years.

Using the latest Japanese technology and state of the art expertise, our products have been designed in accordance with our policy to "create the most comfortable environment" possible



Providing the maximum satisfaction to all customers

FUJITSU GENERAL's VRF AIRSTAGE Series was first launched 16 years ago and have been developed the latest in air conditioning technology.

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We have offered a series of products from large homes to large scale buildings to meet the various market needs.

Fujitsu General VRF system was developed based on Japan's high technical capabilities and quality.

It acquired the newest performance test, vibration test, severe environment test, high-frequency evaluation, 60m height difference evaluation, and other stringent performance evaluations, and was commercialized. In addition, equipment selection, equipment installation simulation, commissioning and other technical support is also provided from the design stage and it is highly evaluated by the market.

As a result, the VRF system is sold in more than 50 countries around the world. Product line-ups and types matched to the European, Asian, American, Oceanian Middle Eastern, and Chinese markets are offered. The newest examples of installations are introduced here.







AIRSTAGE™ OUTLINES



OFFICE



SHOP



HOTEL



PUBLIC FACILITY



SCHOOL



HOSPITAL



RESIDENTIAL

AIRSTAGE J-IIIL

High efficiency and compact design model

8HP to 12HP / Heat pump

OVERSEAS AIR CONDITIONING BUSINESS SINCE 1971, VRF BUSINESS SINCE 2001

AIRSTAGE HISTORY

FUJITSU GENERAL'S VRF AIRSTAGE™ Series has been developed based on our long-term air-conditioning technology know-how and was first provided 16 years ago. We have offered a series of products from large homes to large-scale buildings to meet the various market needs.



For Residential & Light Commercial Use



AIRSTAGE V-

High efficiency and Compact design model Extensive lineup from 8HP to 48HP in 2HP increment / Heat pump





AIRSTAGE J-

J-II series High efficiency model 4HP to 6HP / Heat pump

2012

2014

2015

2016







AIRSTAGE™ History

2001

2004

6HP / Heat pump

2006

2007

2009

2011

2017

History of Environmental Measures

10HP / Heat recovery

8,10HP / Heat pump

2003

Green Initiatives Fujitsu introduces inverter technology and the use of environmentally friendly R410A refrigerant.

V series

8 to 42HP / Heat pump

RoHS Compliant Restriction of Hazardous Substances is an EU directive intended to product the environment by forcing manufacturers to use environmentally friendly materials in all consumer electronics.





Green Advancement Use of 100% inverter driven DC compressors.







High efficiency and Compact design model 8 to 48HP / Heat Recovery

> J-IIS series High efficiency model 4HP to 6HP / Heat pump



AIRSTAGE T-TIS



High efficiency and small capacity model 4HP to 6HP / Heat pump





AIRSTAGE 1/- III

High efficiency and large capacity model

4HP to 6HP / Heat pump

Fujitsu General Central Air-conditioner

(Wuxi) Co., Ltd.



R&D Center in Fujitsu General (Shanghai)

JAPAN Head Office

Testing Tower

Overseas

GLOBAL NETWORK

Fujitsu General's air conditioning business has acquired a major share of the overseas market. We have many production and sales facilities overseas, and we continue to develop and sell products that are accepted around the world by their "easy-to-use and environmentally-friendly technology".



Fujitsu General (Shanghai) Co., Ltd.

F.G.L.S. Electric Co., Ltd.

FUITSU AR CONTINUE

HIGH QUALITY DEVELOPMENT & PRODUCTION FACILITIES

Fujitsu General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance using these facilities.

Advanced Research Facility and Equipment

Performance Testing



Air Volume Measurement Room

Measure air volumes of the air conditioners from compact RAC models to VRF.



Calorimeter

Measure the cooling/heating capacity by measuring the inlet and outlet temperatures, humidity, and air volume of the air conditioner



Silent Room

Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.

Reliability Testing



Constant Temperature Room

Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.



Practical Test Room

Check on whether the air conditioners performance under the actual house conditions is sustainable.



Shower Test Room

Check on whether the electrical box of the outdoor unit is protected by rain waters with typhoon like wind.

Transportation & Handling



Compressibility testing



Vibration testing

Testing Laboratory

Fujitsu General EMC Laboratory Limited







60 m Height Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability



ACQUISITION OF ISO 9001 AND ISO 14001



High Product Quality Assurance

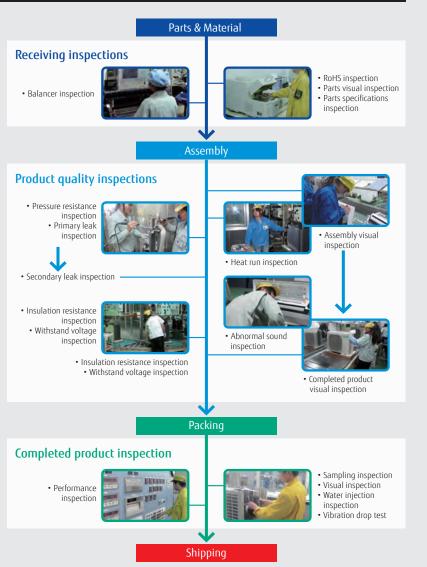
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

Receiving inspection

Parts procurement requires a supplier's test report. European regulation RoHS inspection is also performed by special test department in-house. Total number inspection is performed especially on main parts to remove defectives.

Stringent product quality inspection

Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.





AIRSTAGE™ SUPPORT

Training

Fujitsu General has many training facilities around the world that regularly conduct specialized product, technical, and service training. These research facilities also support the development of people with high technical capability.

- Designing AIRSTAGE™ Systems
- Control System on-site training













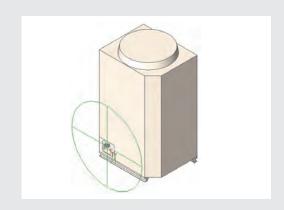




Technical information

We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

- Design & Technical ManualModel Selection & Estimation
- Certificate Data
- 2D/3D CAD Data



Product information

New product information is provided in the form of documents and movies for every new model released. These can be downloaded from a private section of our website. To access this website, please contact your Fujitsu representative.

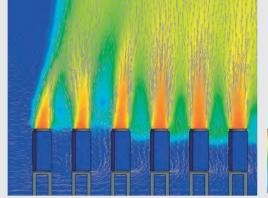
- Product News
- Brochures & All Manuals
- Feature Promotion Movie



Technical support

Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

- CFD Simulation
- Guide line
- Commissioning Support





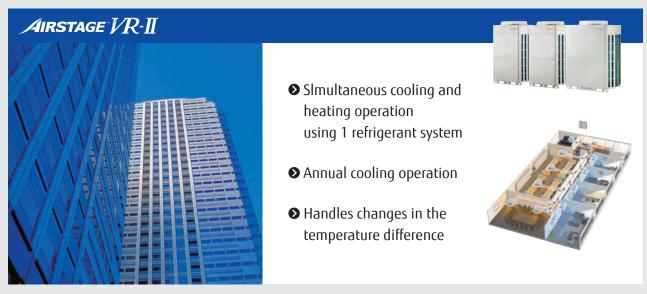


Commissioning Support

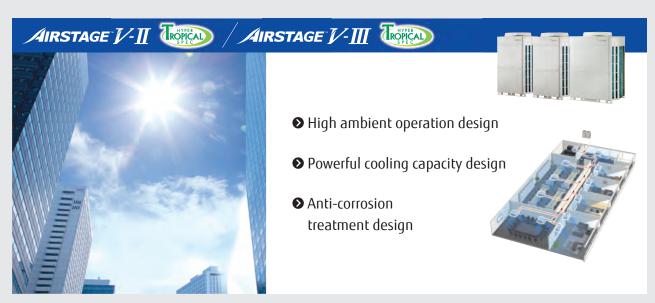


AIRSTAGE[™] series Wide product lineup for various market needs

Modular types







Unit types

AIRSTAGE J-IIS



- Space saving and low sound level design
- **♦** Flexible systems for homes, shops, small-size buildings air conditioning

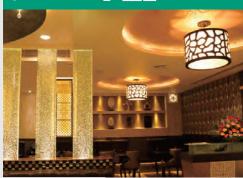
AIRSTAGE J-III



- ♦ High Energy Efficiency
- ◆ Flexible systems for small- and medium-size buildings air conditioning



AIRSTAGE J- III L



- ◆ Compact Outdoor unit
- ◆ Small room application
- Quiet design

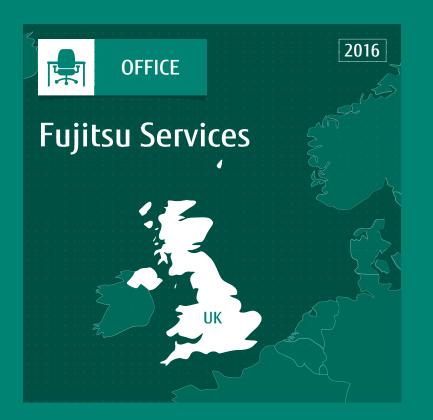






- ♦ High Energy Efficiency
- Flexible systems for small- and medium-size buildings air conditioning









Indoor unit

27 120

Project summary

The R22 replacement project. 145,000 square foot building, from warehousing and repairs through to light engineering. The entire two-storey building. Open plan working areas, multiple meeting rooms, small privacy rooms, a cafeteria, a data center and various kitchen areas.





AIRSTAGE VR-II



AIRSTAGE V-III



Outdoor unit

58

Indoor unit

405

Project summary

24692 m seven floors 632HP
The building functions for business space, conference rooms and fitness club. All Office premises are air-conditioned and heated (the only source of heating in the building).









40 260

Indoor unit

Project summary

8500 m² five floors Very interesting factory revitalization. The building functions for business space and conference rooms.







AIRSTAGE J-

AIRSTAGE V-II



Outdoor unit

Indoor unit

52 136

Project summary

Residential complex with some offices and shops, 4 four-storey buildings, Fujitsu was chosen due to compact size design and flexible piping design J-IIS series.













Indoor unit

92

Project summary

4100 m² four floors Piotr and Paweł is one of the largest chain of supermarkets in Poland The building functions for business space and conference rooms. All Office premises are air-conditioned and heated (the only source of heating in the building).











AIRSTAGE V-II



Outdoor unit

10

Indoor unit

119

Project summary

Business Center (One of the Office Buildings).









65

Indoor unit

461

Project summary

Business Center (One of the Office Buildings).





AIRSTAGE V-III



Outdoor unit

51

Indoor unit

260

Project summary

Chengdu dangjian journal building is 12-story building and air conditioned area is 13000 square meter, 560HP.

The building has a studio hall and control room on the 1st and 2nd floors, an office room on the 7th to 11th floors, a dining room and rest area on the 12th floor.

The outdoor unit is installed on the rooftop.











19

Indoor unit

127

Project summary

Emergency rescue drills and test platform construction projects is air conditioned area is 8345.18 square meter, 356HP.
This building is height of 23.5m five floors the building functions for the laboratory, business space, information room.









Indoor unit

72 249

Project summary

Yixing East China photoelectron Inductrial Park is 5-story building and air conditioned area is 16000 square meter, 1100HP.

This building is the core project of Science Park, has factory exhibition area, work area, office area, rest area.

The outdoor unit is installed on the rooftop.









Indoor unit

Project summary

Hair and beauty salon.the salon has shops on both sides and apartments above.







AIRSTAGE V-II



Outdoor unit

Indoor unit

10

Project summary

Shopping mall with office.









7

Indoor unit

166

Project summary

Jahnvi Motor Private Limited group was diversified into Automobile industry in 2012 as exclusive dealers in Tamil Nadu.

The 8000 sq.ft showroom is situated on Madurai-Dindigul NH Road, Samayanallur. The showroom is built with Audi's global terminal concept.

It houses eight cars display inside the showroom and has set a benchmark for luxury car showroom in the region.









TAL

RESIDEN







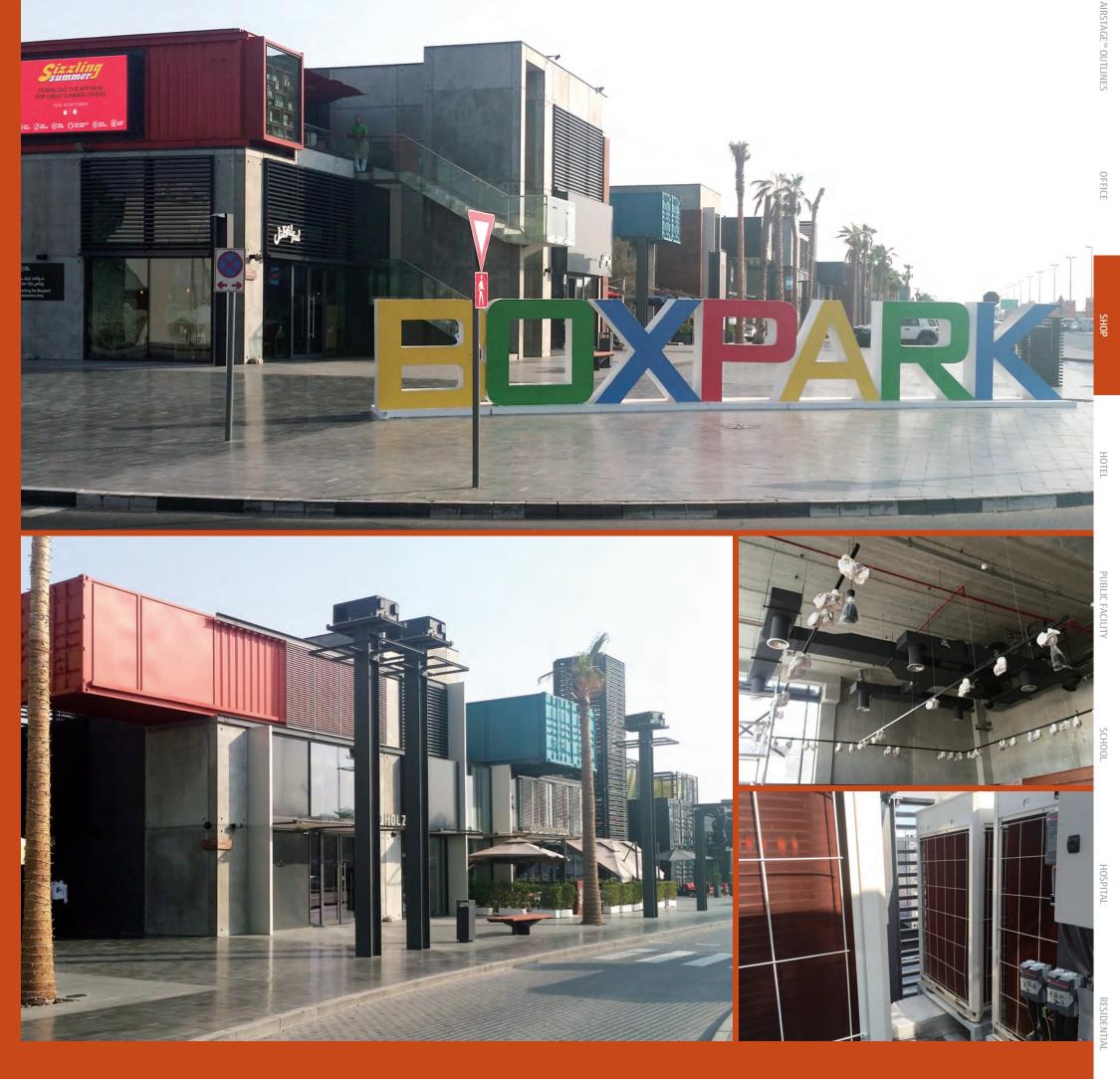
84

Indoor unit

166

Project summary

BOXPARK is a distinctive retail and hospitality destination set in the heart of Jumeirah on Al Wasl Road. The development features 44 niche, high-end, retail, leisure and entertainment brands.









Outdoor unit Indoor unit 102

Project summary

MERCURE HOTEL is 4-story, 4-star hotel. 95 guest rooms as well as resturant, bars, gymnasium and four conference rooms.







SCHOOL

OSPITAL

RESIDEN







Indoor unit

567 1909

Project summary

Residential & Commercial project Office tower: 85701 m, 22storeys 5 star hotel: 37757m², 24storeys, 400rooms











24

Indoor unit

166

Project summary

HYCINTH is a premium boutique hotel that offers a distinct and refined hospitality experience. The aims to revolutionise conventional notions of hospitality with innovative design choices.









Outuooi uiiit

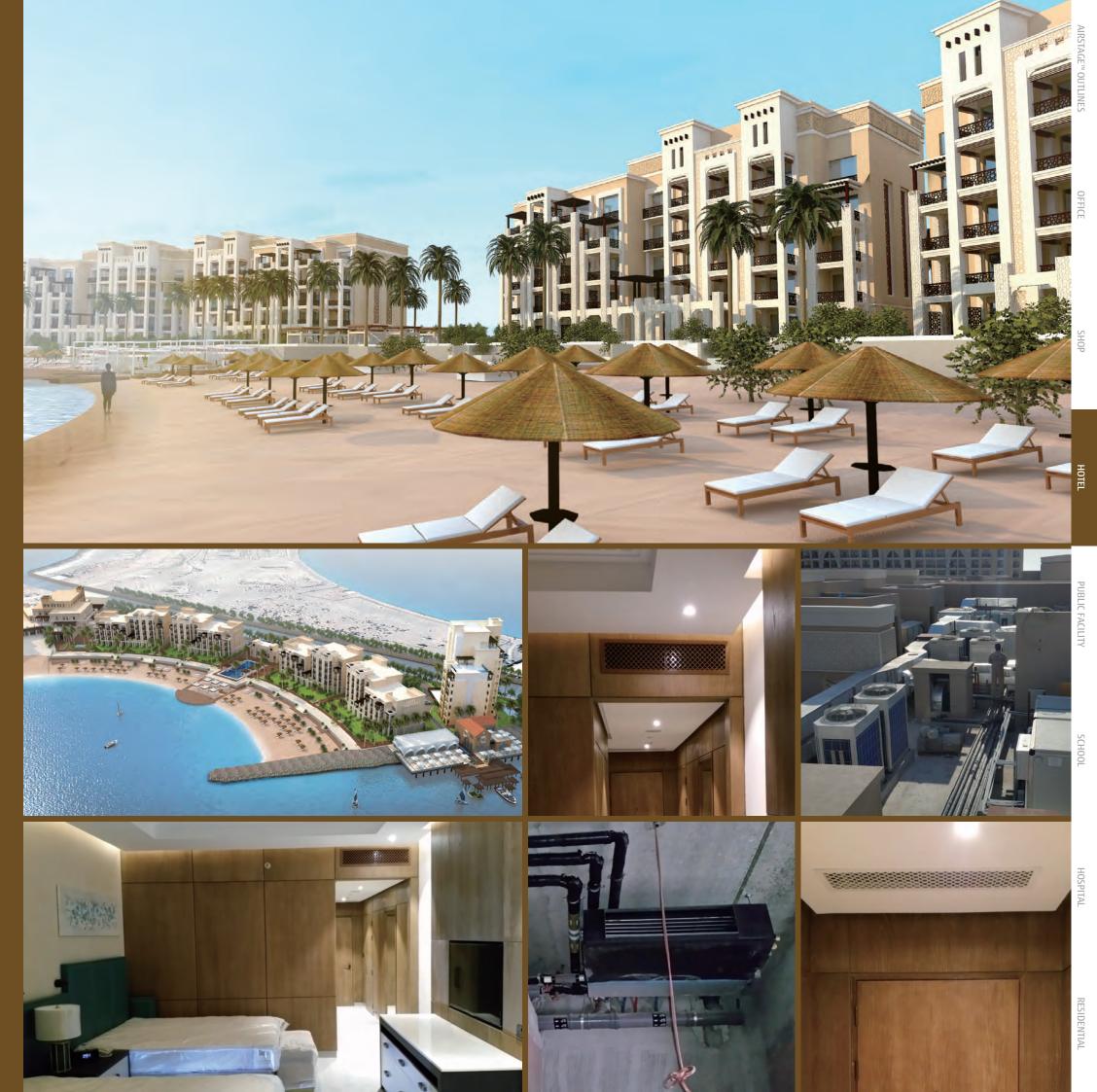
50

Indoor unit

250

Project summary

DoubleTree by Hilton Resort & Spa Marjan Island is a 701-room hotel and leisure destination which enjoys a prime location on the trunk of Marjan Island, a cluster of five man-made islands in the upscale area of Al Hamra, Ras Al Khaimah.









Indoor unit

122

Project summary

The Norwegian Home first opened for service over a century ago (1903) in the Bay Ridge area in Brooklyn, NY. It started out caring for a small group of elderly women and carried on by a small dedicated group of Norwegian immigrants from Bay Ridge. Their name changed in 1911 to the Norwegian Christian Home for the Aged, when the charter broadened to admit men. When a skilled nursing facility was added in 1973 they adopted the present name "Norwegian Christian Home and Health Center".















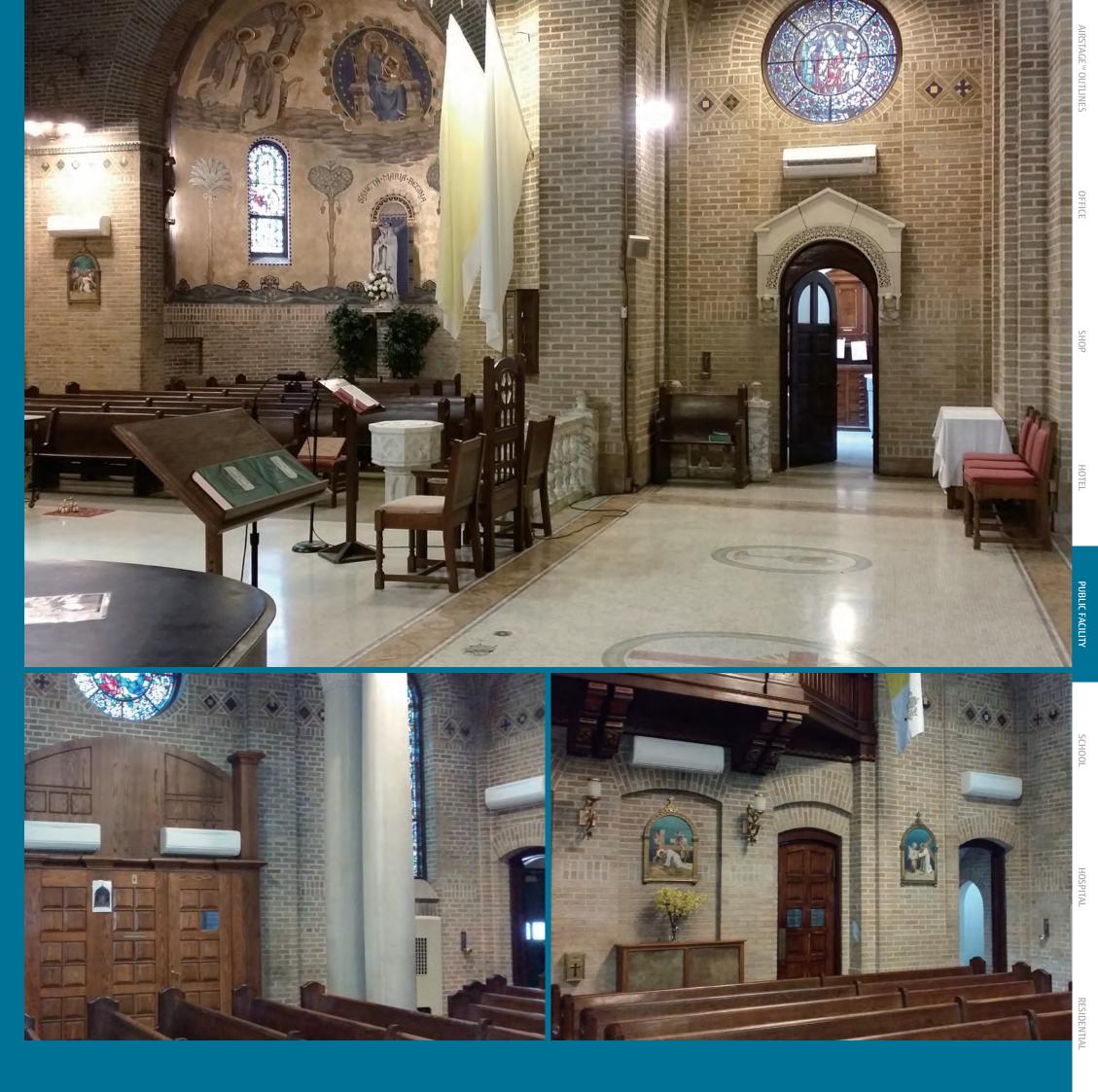
2

Indoor unit

14

Project summary

The Grand Romanesque/Byzantine, St. Patrick's Church on Main Street in Bay Shore, NY has been a South Shore landmark for nearly a century. The building was dedicated in 1919.







11

Indoor unit

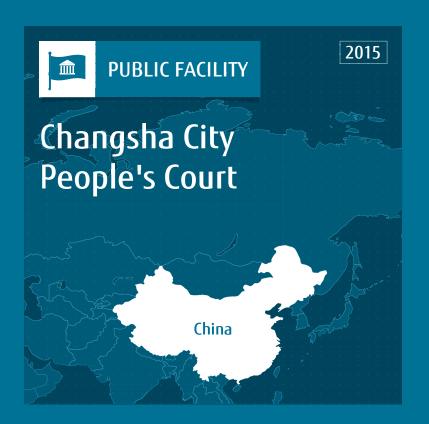
41

Project summary

Sichuan Gongmei Environmental Art Design Engineering Co., Ltd is 2-story building and air conditioned area is 3202 square meter, 120HP. This building has the exhibition hall, overview of the history exhibition hall.











18

Indoor unit

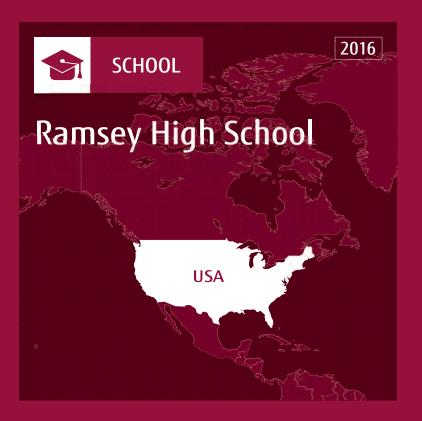
270

Project summary

Changsha City People's Court is a court that is a 7-story building and air conditioned 30000 squre meter, 760HP.

The outdoor unit is installed on the rooftop.









4

Indoor unit

25

Project summary

Three-story public high school built in 1937.









3

Indoor unit

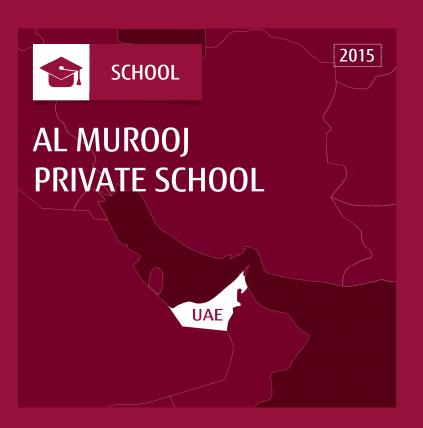
15

Project summary

New building including 10 classrooms, new refurbishment of class rooms for science, visual arts and intensive English.











Indoor unit

Project summary

Abu Dhabi is an established private school located in Mohammed Bin Zayed City. The School is recognized and approved by ADEC.It has 44 classrooms and 1115 students.









AIRSTAGE 7/- III



Outdoor unit

5

Indoor unit

16

Project summary

This is a biggest international school in Ahmedabad city. This a self-financing school with current enrolment of more than 700 in classes Nursery to IX standard.









5

Indoor unit

35

Project summary

Changzhou City, the twenty-fourth middle school is air conditioned area is 2000 squre.









19

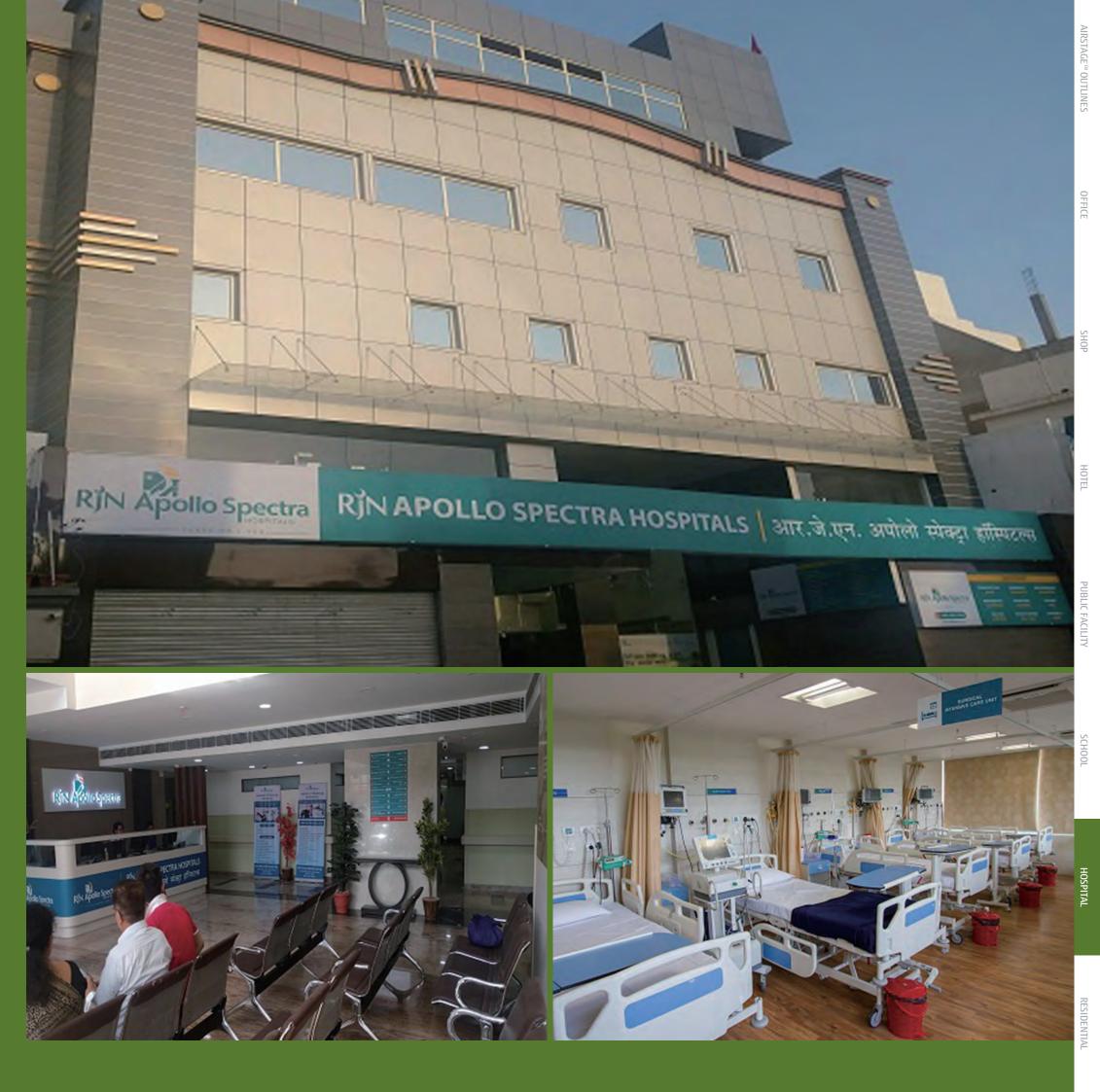
Indoor unit

79

Project summary

With 12 centres across 9 cities – Bengaluru, Chennai, Delhi, Jaipur, Kanpur, Mumbai, Hyderabad, Gwalior and Pune, over 50,000 successful surgeries outcomes,

with excellent clinical and over 700 leading doctors, Apollo Spectra Hospitals continue to set new standards in healthcare services.









27

Indoor unit

187

Project summary

Wuxi Dongbei Tong Community Hospital is air conditioned area 6000 squre meter, 366HP. This building has become a redevelopment project property of a community hospital, there are a consultation room, a hospital room and a dining room.









Indoor unit

132

Project summary

Hotel and residential apartment complex building 143 apartment across 11 levels, Studio hotel rooms and one and two bedroom apartment.









81

Indoor unit

521

Project summary

Emirates Air has evolved into a globally influential travel and tourism conglomerate known the world over for our commitment to the highest standards of quality in every aspect of our business.

This building construction consist of Ground floor, 3 typical floors & roof used as staff accomudation.





