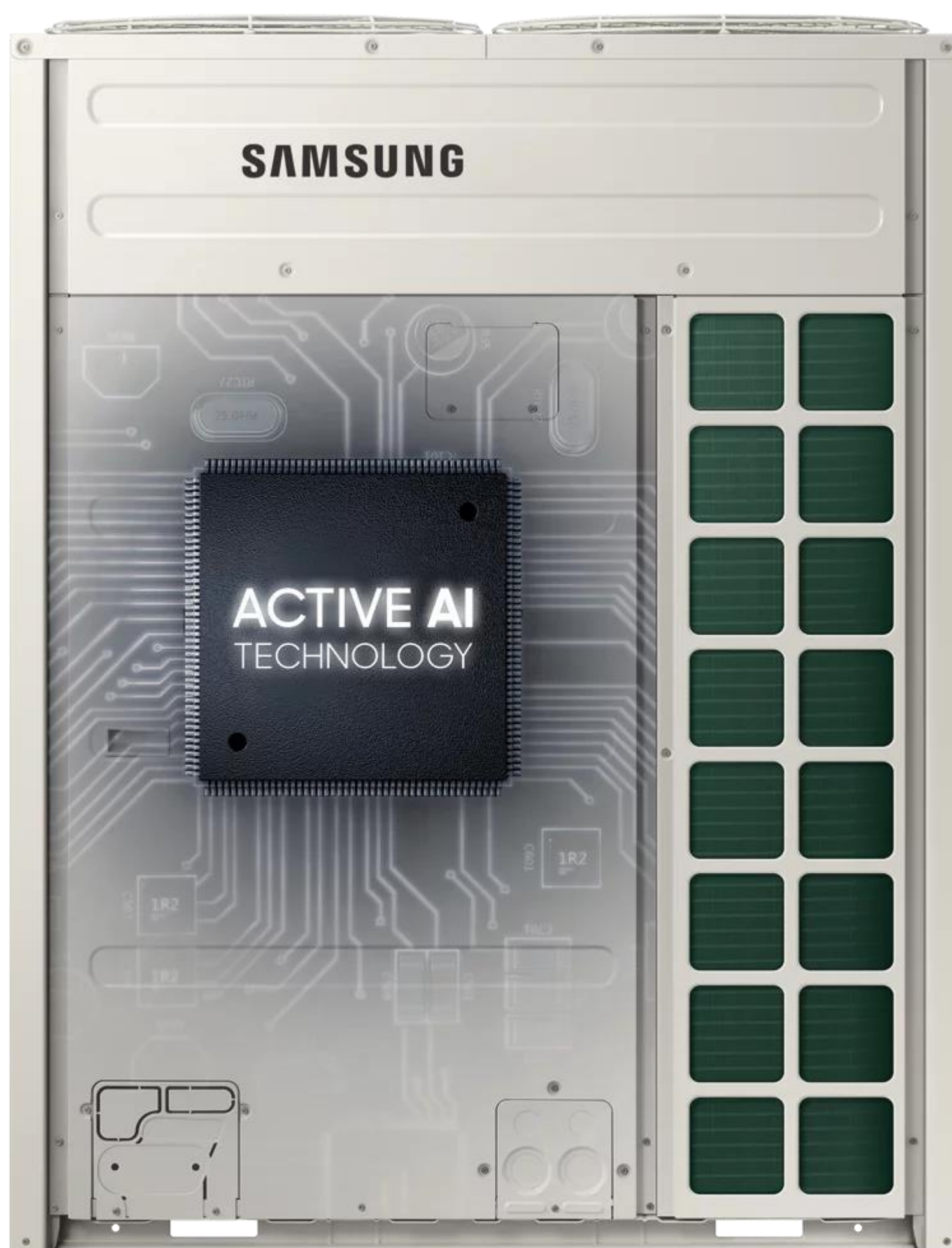


# The most efficient team in the game.

Discover the entire line of Samsung's innovative VRF systems.  
Samsung DVM S - Smart products for smarter businesses.



# What is VRF?

Variable Refrigerant Flow (VRF) systems consist of outdoor units connected to multiple indoor units via refrigerant piping to provide cooling or heating to individual zones. The outdoor units can modulate capacity based on the requirements of the individual zones, thus saving energy by not always running at 100% capacity and improving occupant comfort by maintaining temperature as needed in each individual zone.

With design flexibility, premium comfort, and superior performance, Samsung DVM VRF air conditioning systems offer just the right solution for any application.

## Design Flexibility.

### Compact Equipment

Small outdoor unit footprints allow for installation in applications where space is limited, such as on crowded rooftops, or in tight mechanical rooms. DVM S systems feature a design diversity ratio of 50 - 130%.

### Wide Variety of Indoor Units

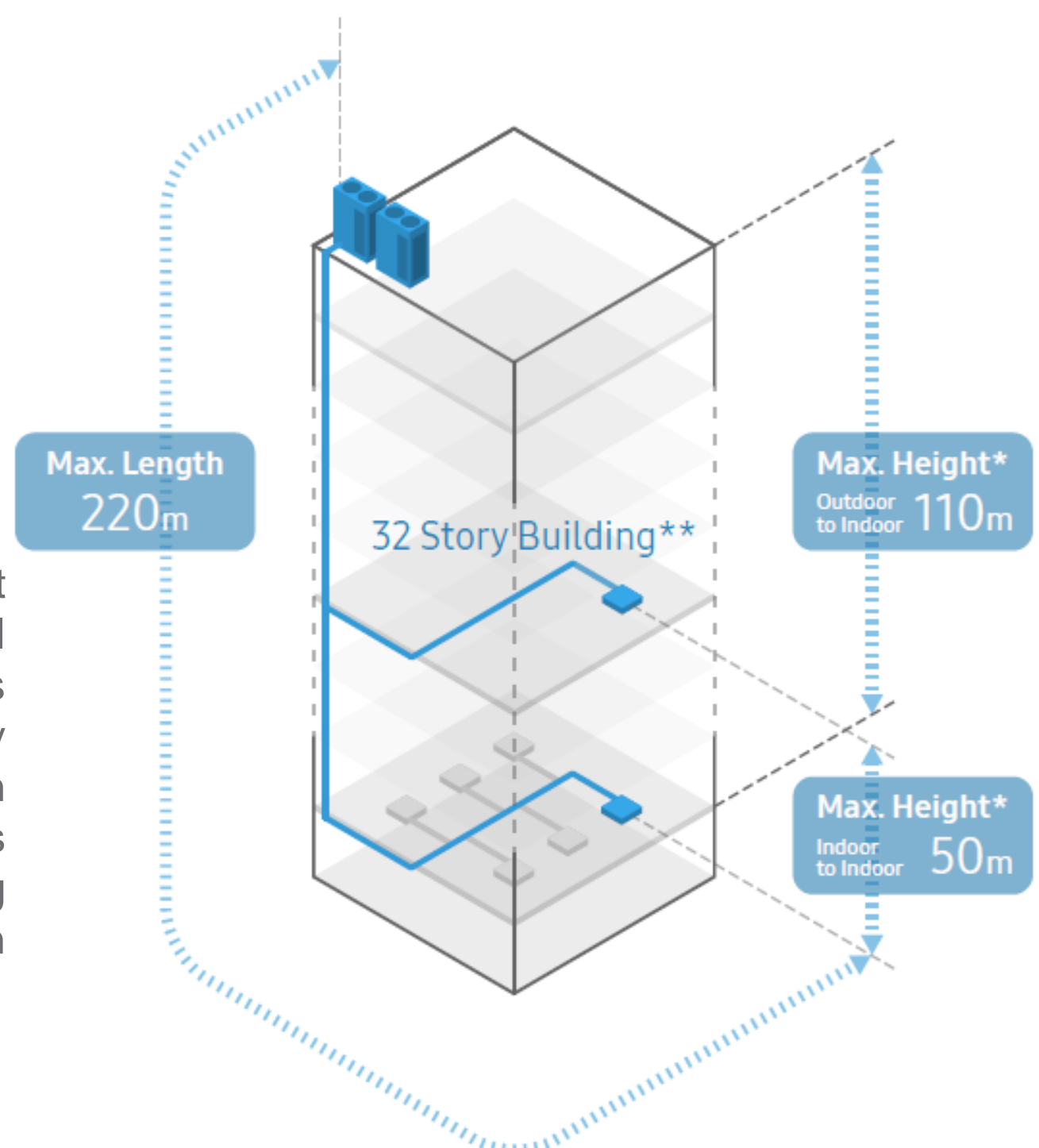
Our indoor units offer superior performance, flexible installation, and ease of operation. These units employ innovative technologies, like our Wind-Free™\* cooling technology, to optimize comfort in any environment. With over 10 types of indoor units, ranging from 5,000 to 96,000 Btu/h, there are solutions for almost any application.

### Extended Piping Limitations

DVM S systems offer installation options with extended piping length up to 200 m, vertical separation up to 100 m between the outdoor unit and furthest indoor unit, and 50 m between the highest and lowest indoor units.

### Control Integration Options

A number of control options are available to fit a variety of project needs, from simple local controllers to full central control options. This grants the capability to integrate into any Building Management System (BMS) through BACnet, LonWorks, or ModBus. Samsung's Wi-Fi Adapter provides control and monitoring remotely from the SmartThing Application on your Smartphone.

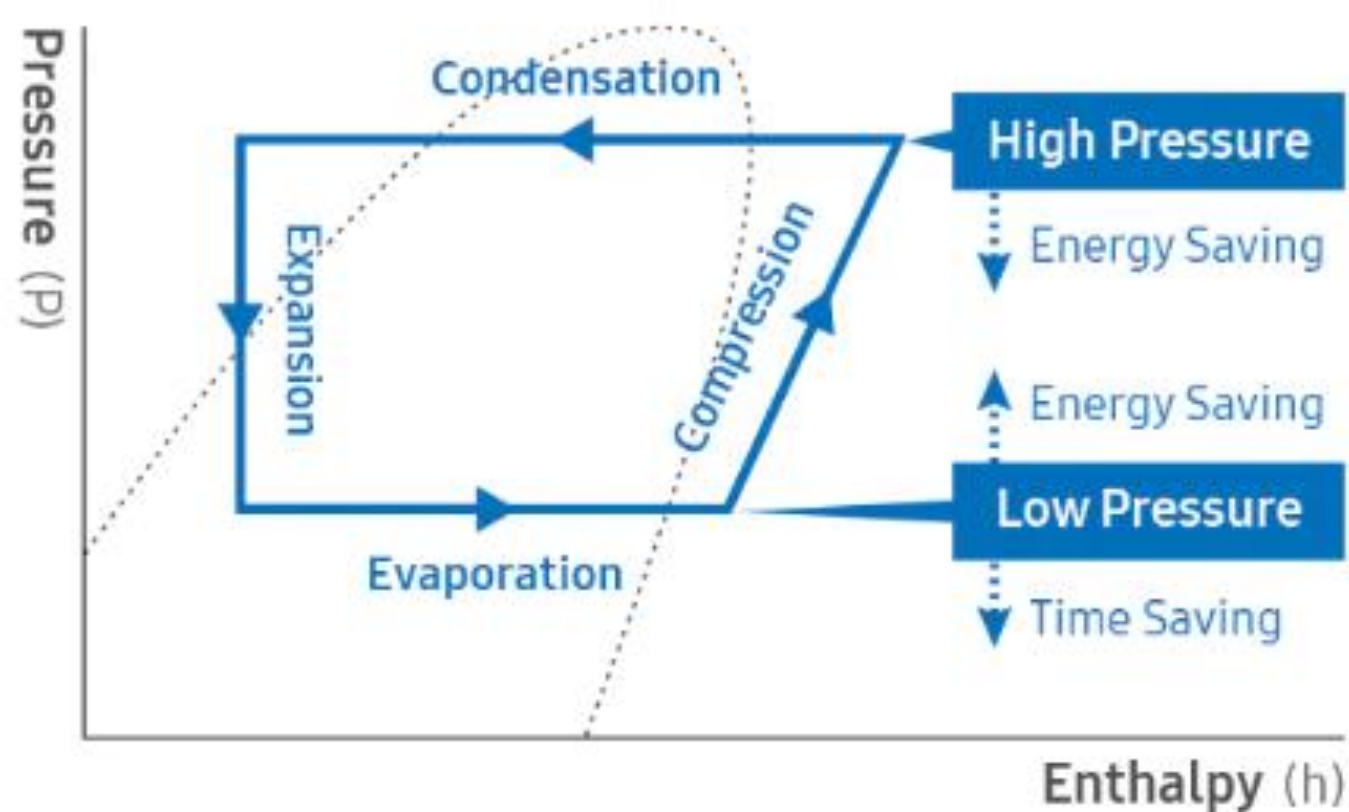
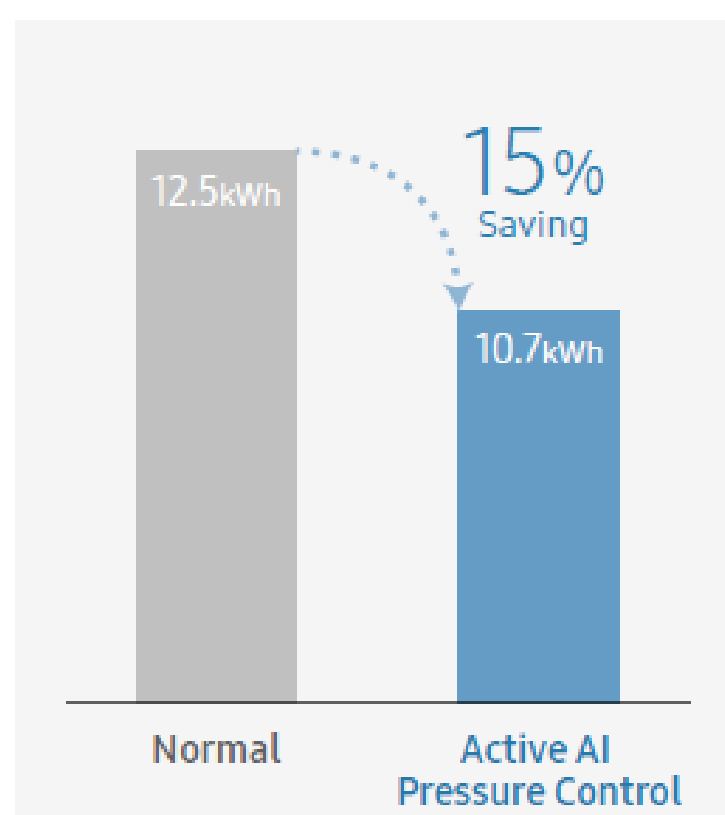




## Comfort.

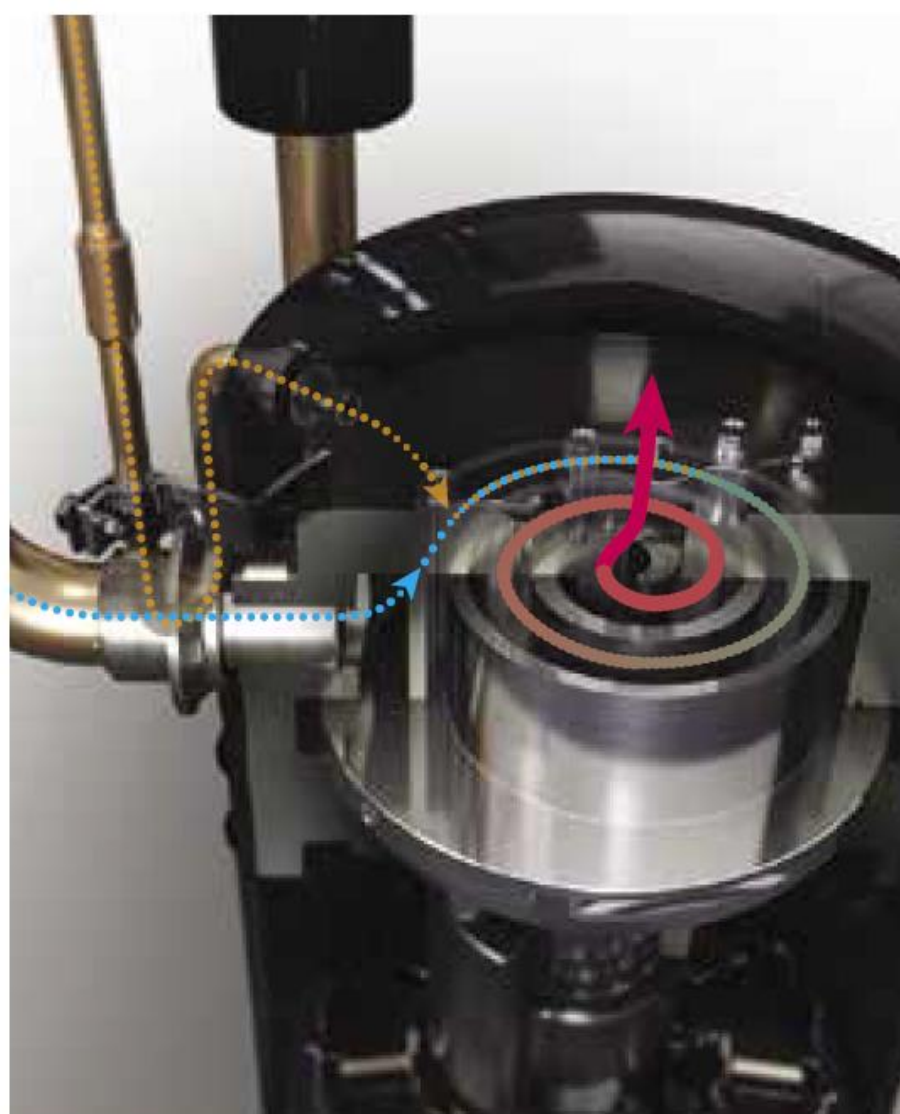
### Active AI Pressure Control

Thanks to its Artificial Intelligence (AI) capabilities, DVM S2 detects indoor climate conditions to deliver optimized cooling and or performance. AI Low Pressure Control learns the patterns of cooling operation and reaches the target temperature more rapidly, ensuring consumers feel at ease at the desired temperature. Meanwhile, AI High Pressure Control maintains the optimal high pressure by making adjustments based on the installed environment.



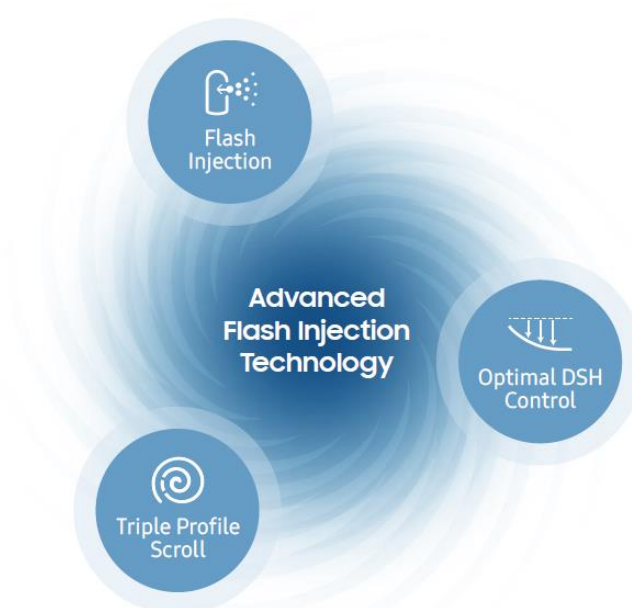
### Quiet Operation

Samsung systems are meticulously designed with the user in mind, and minimizing sound levels is a key design aspect our engineers focus on.



### Advanced Flash Injection

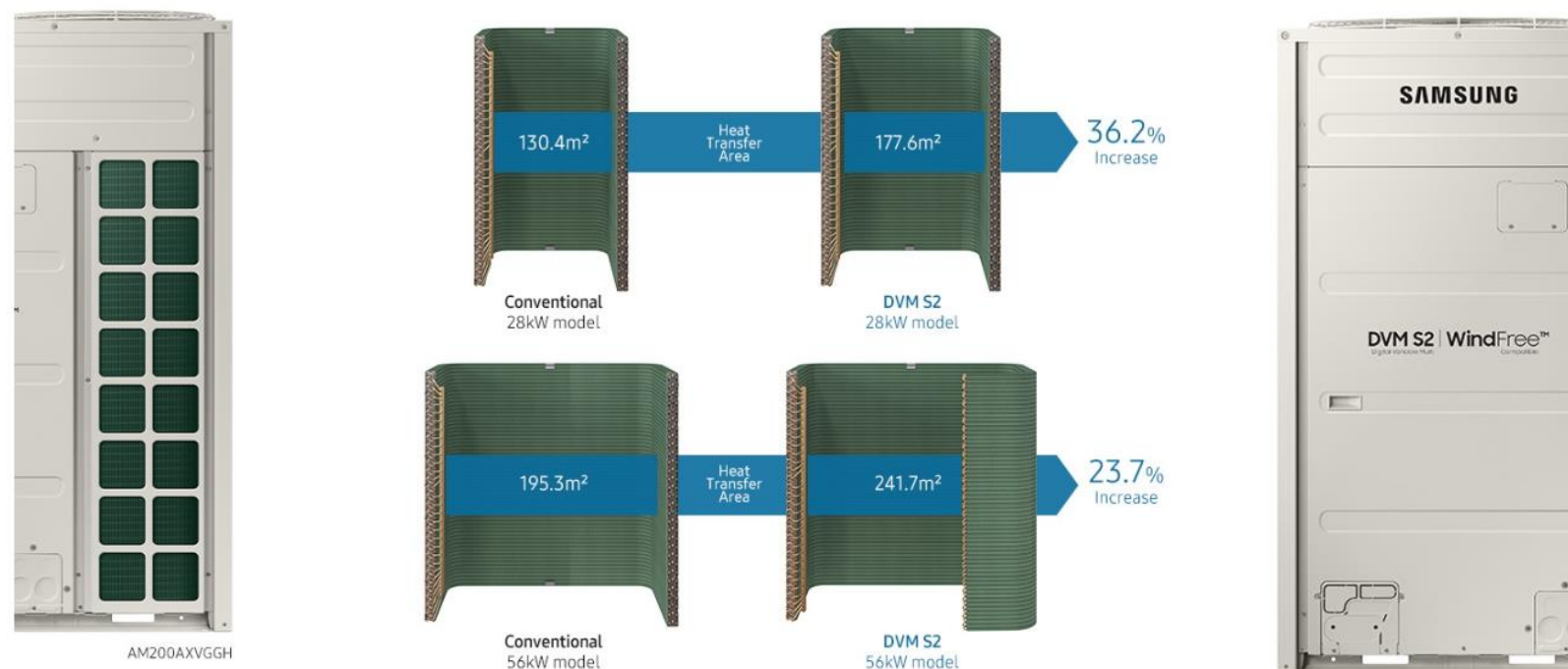
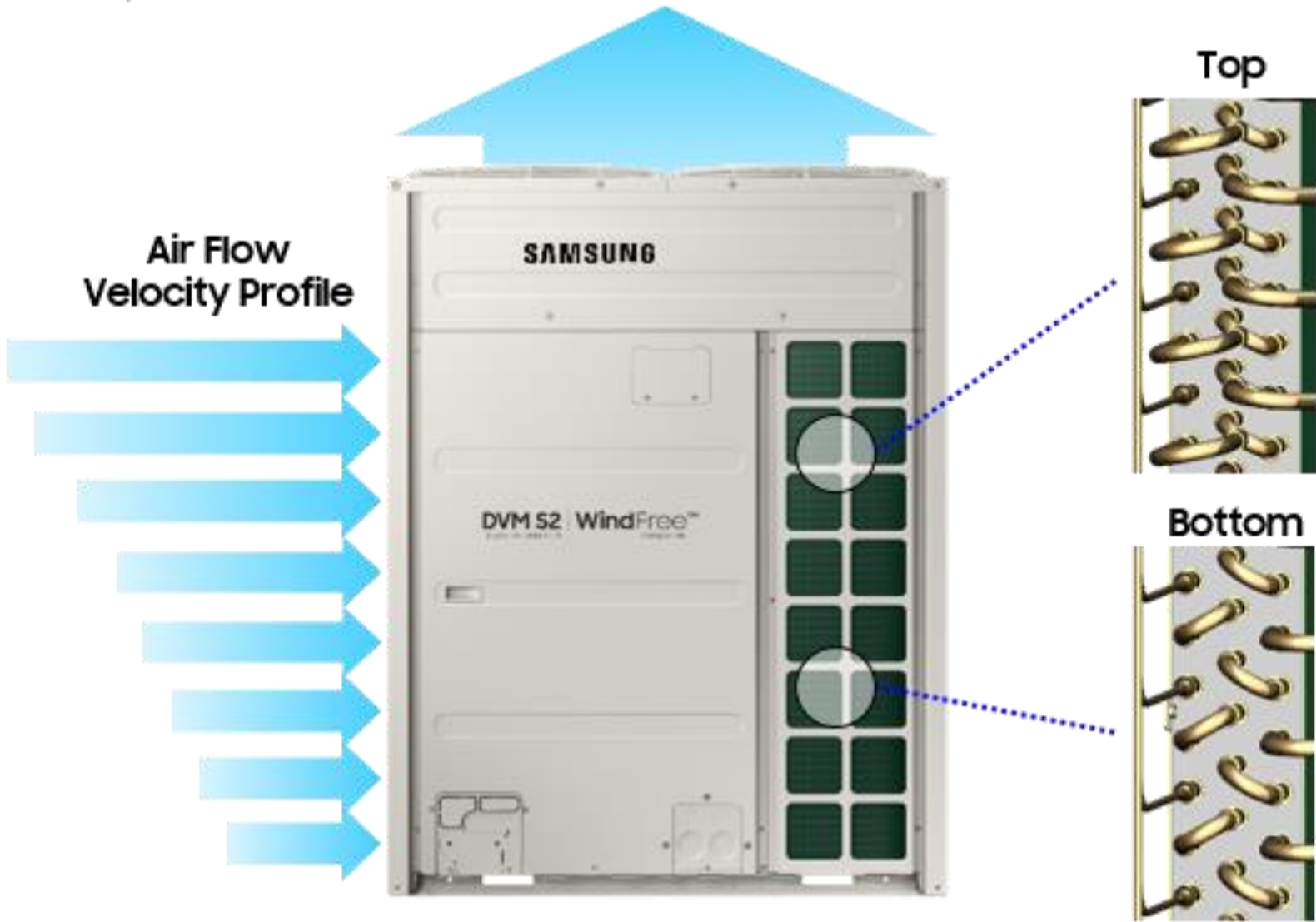
Experience new levels of comfort. The Advanced Flash Injection Compressor provides tremendous capacity\*. It combines Flash Injection technology with a strengthened Triple Profile Scroll and efficient Optimal Discharge Superheat Control technology. It maintains pleasantly cool or warm conditions in every corner of a building all year round..





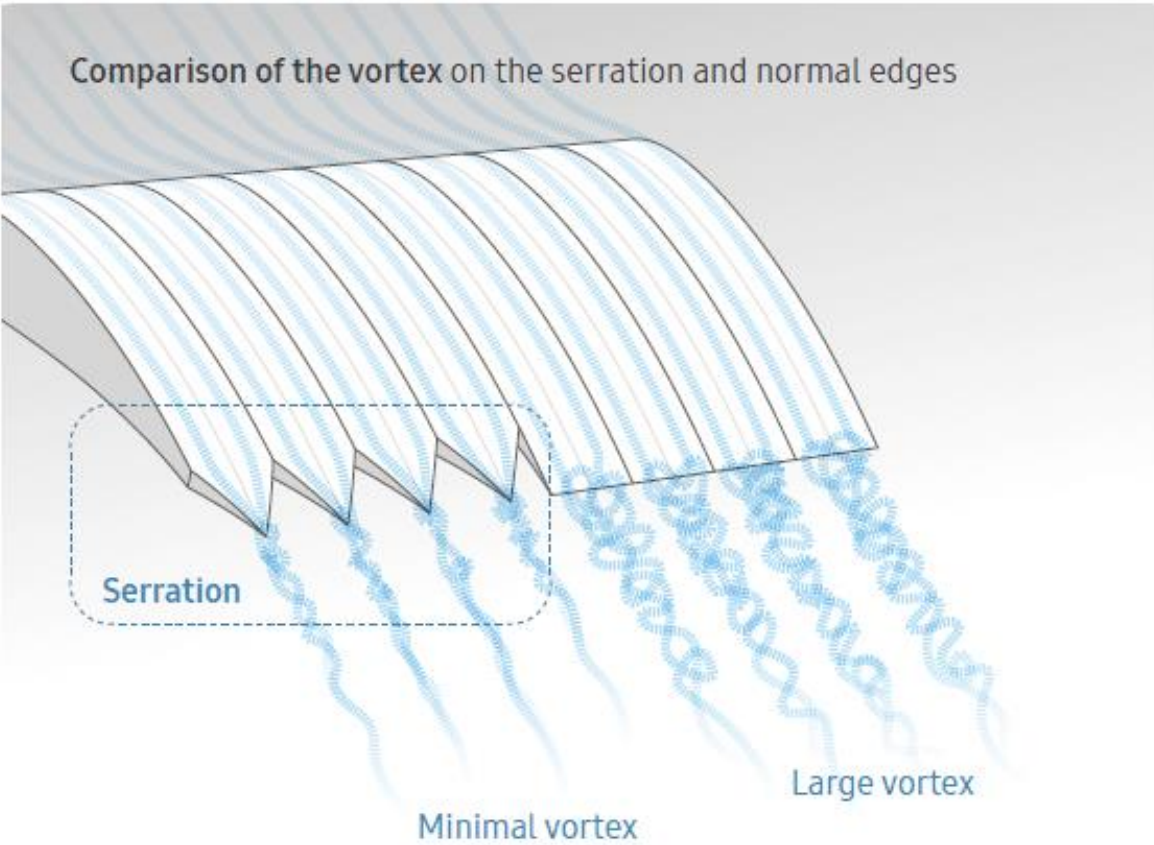
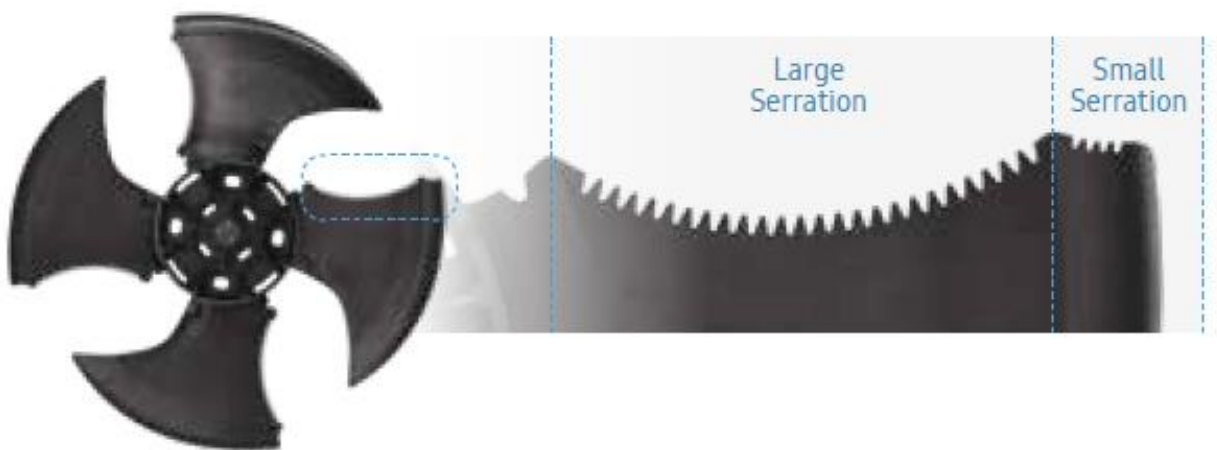
Efficiency.

**Optimized Refrigerant Path Design**  
With a bigger Heat Exchanger, the performance of the product has been maximized through the refrigerant path design corresponding to the air flow profile. The refrigerant flow rate is adjusted by increasing the mass flow rate in order to increase more heat exchange in the upper part.



**Enlarged Heat Exchanger**  
Reduce operation costs with a high energy efficiency. The Heat Exchanger has an enlarged heat exchanger to transfer more energy at once.

**Unique Aerodynamic Design Fan**  
The DVM S2 has a brand-new, aerodynamic Multi-serration Fan, that creates more air flow while consuming less energy. wing tip design, minimizes the turbulence of the air vortex, which reduces the air resistance and ensures more stable fan movement.

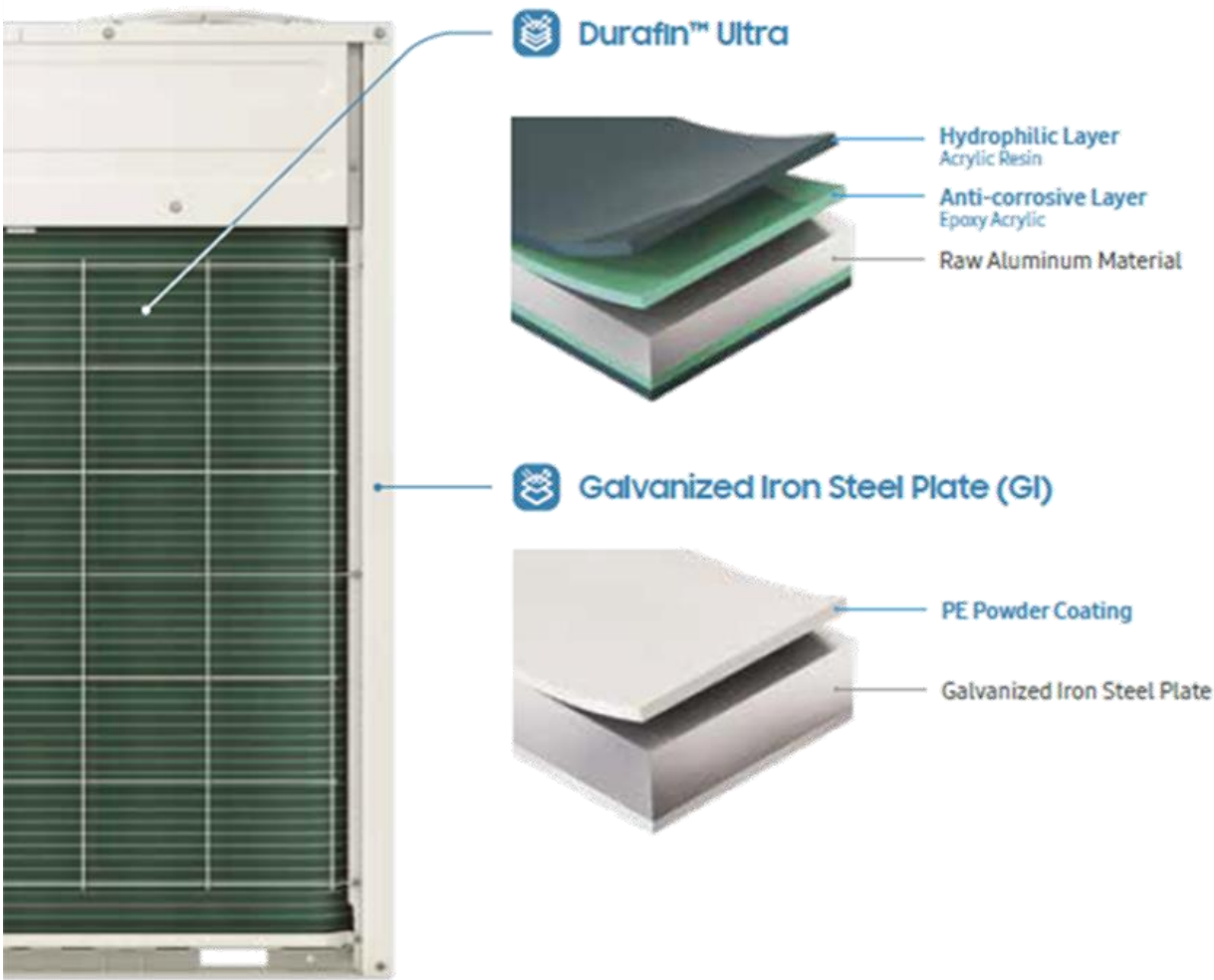
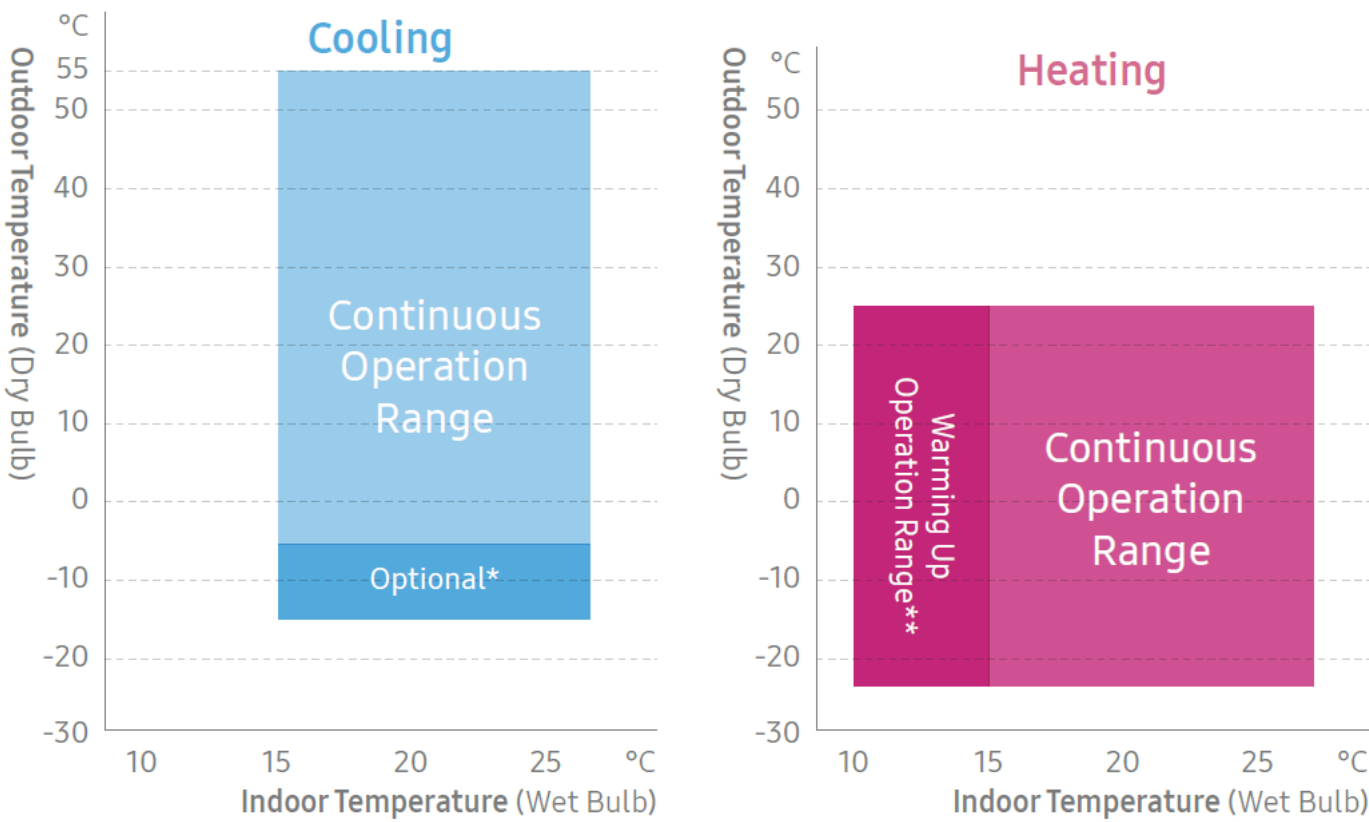




Reliable and Durable.

Wide Operation Range

No matter how extreme the temperature, the high-performance. DVM S2 can handle the conditions. Operating across a wide temperature spectrum, it can cool in heat of up to 55°C and provide warmth in freezing cold conditions of -25°C to ensure a constant and comfortable environment.

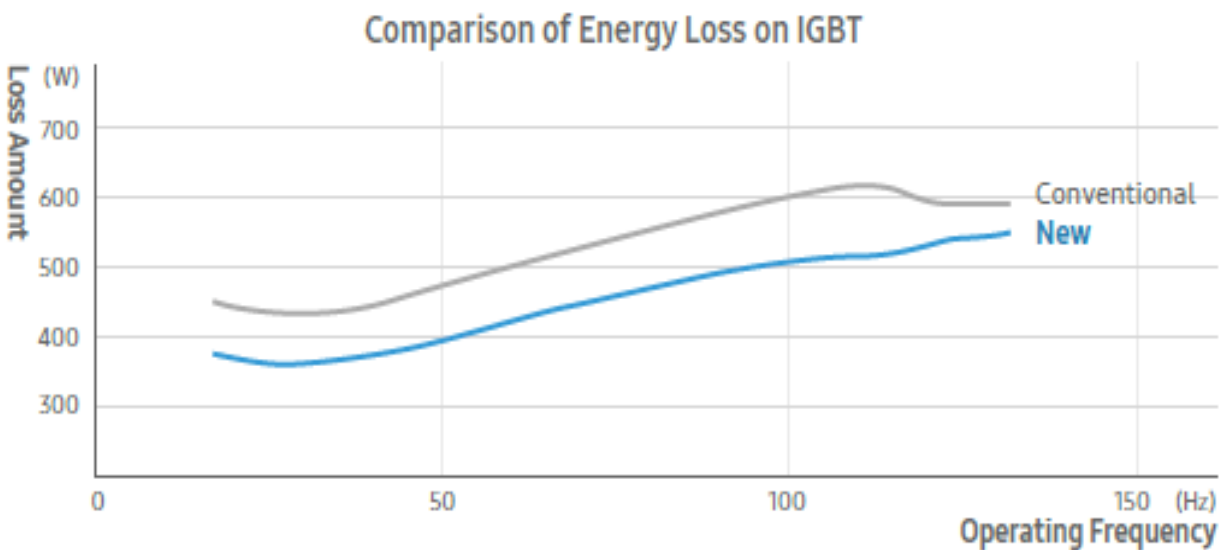
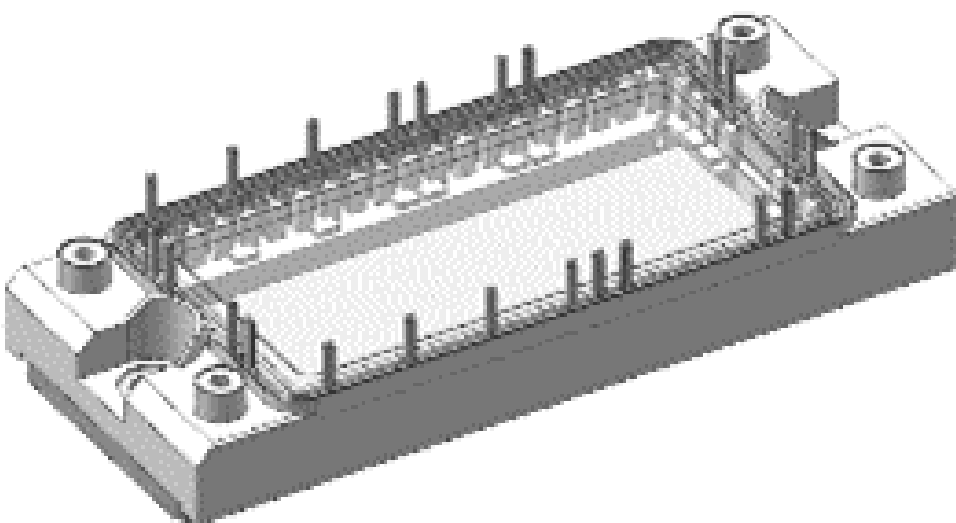


Heavy Anti Corrosion Treatment

Safeguard the Heat Exchanger from damaging corrosion. The Durafin™ Ultra has an anti-corrosive layer and a hydrophilic layer that protects the Heat Exchanger from rust. Its superb corrosion-resistance was proven in a Salt Spray Test (SST)\*.

High efficiency IGBT (Insulated Gate Bipolar Transistor)

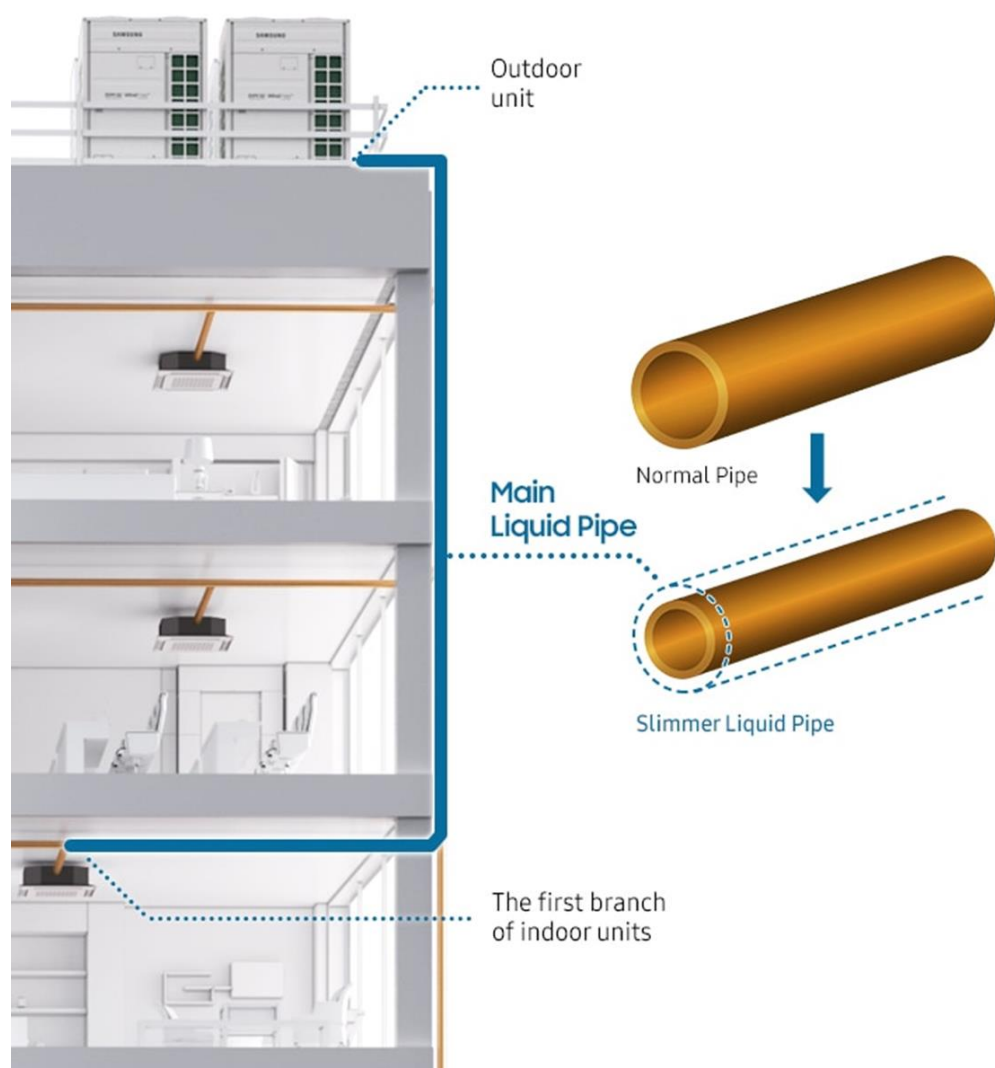
The Samsung DVM S2 uses the 7th generation of IGBT, which reduces the loss of conducted electricity by 20%\*



## Convenience.

### 3rd Generation Dual Heat Sink

The inverter circuit of VRF systems generates a lot of heat, which affects the entire system performance. The Samsung DVM S2 has a Dual Heat Sink that uses both air and refrigerant. Its unique Insert Die-casting Heat Sink design minimizes the thermal loss between the pipe and heat sink by increasing their contact area by 33%. By radiating heat from the inverter circuit more effectively, it helps extend the maximum operating temperature and delivers a reliable performance regardless of the external conditions.

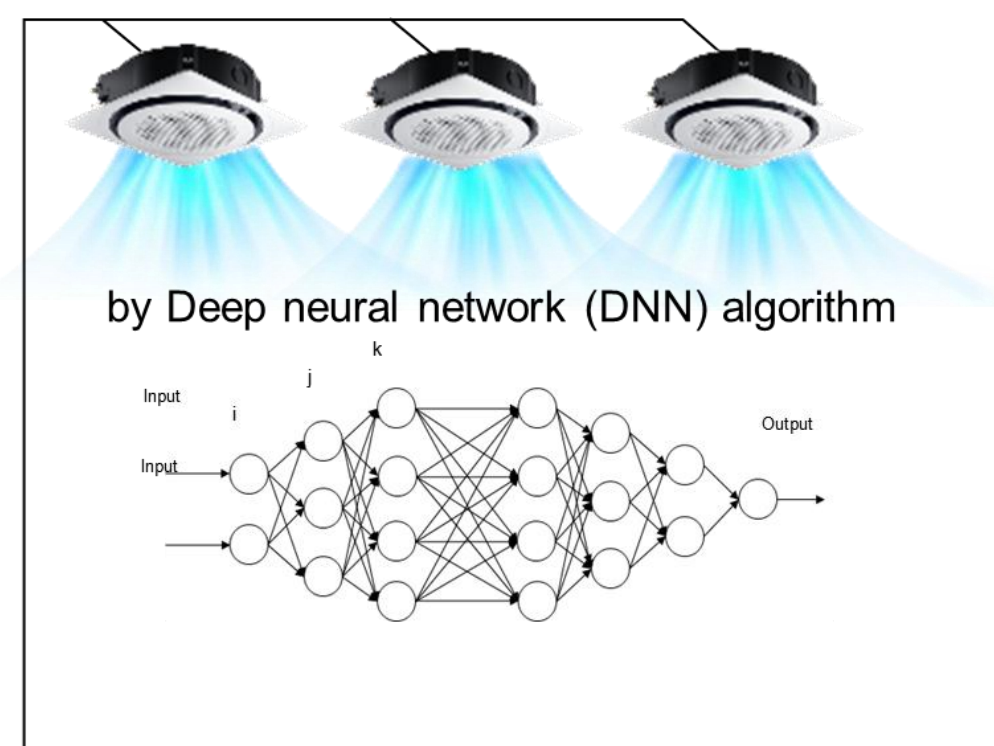


### Slimmer Liquid Pipe (Optional Diameter Reduction)\*

The Samsung DVM S2 is equipped with a high-performance sub-cooler to improve the sub-cooling rate of refrigerant. It requires 28% less refrigerant on average\*\* as it uses a slimmer liquid pipe\*. So, it provides added flexibility in designing the entire system, while saving costs on the installation and maintenance of refrigerant and piping materials.

### Active AI Refrigerant Leak Detection

Uses data from various sensors embedded in indoor and outdoor units to determine the amount of refrigerant required to maintain the system and ensure the best performance<sup>3</sup>. The system also monitors refrigerant volume in real time during cooling operation and displays a warning code for checkup on the outdoor unit PCB and in central controls (conditions apply) in case of leakage.





## Outdoor Units

### DVM S2

DVM S systems offer a wide array of sizes, system combinations and control options, providing flexible designs and applications



- Heat Pump – 380-415V / 50Hz / 3 Ø
- Single Modules up to 24 HP
- Combination Modules up to 96 HP
- Can connect up to 64 indoor units

**8, 10 HP**

**12,14,16,18,20,22,24 HP**

### DVM S Eco

DVM S systems offer a wide array of sizes, system combinations and control options, providing flexible designs and applications



- Heat Pump – 380-415V / 50Hz / 3 Ø
- Single Modules up to 10 HP
- Compact Design
- High Performance and Efficiency
- Can connect up to 10 indoor units

**4, 5, 6 HP**

**8, 10 HP**

Indoor Units



**360 Cassette**  
4.5 to 14.0 kW



**Windfree 4W Cassette**  
4.5 to 14.0 kW



**Windfree Mini 4W Cassette**  
4.5 to 14.0 kW



**2W Cassette**  
1.7 to 7.1 kW



**Slim Ducted**  
2.2 to 14.0 kW



**MSP Duct**  
2.2 to 16.0 kW



**HSP Duct**  
18.0 to 28.0 kW



**OAP**  
14.0 to 28.0 kW



**Windfree 1W Cassette**  
1.7 to 7.1 kW



**Wall Mounted**  
2.2 to 9.3 kW



**Console**  
2.2 to 5.6 kW



**Ceiling**  
5.6 to 14.0 kW



**ERV**  
5.6 to 14.0 kW



**Concealed Floor Standing**  
3.6 to 7.1 kW



**Floor Standing**  
14.0 to 28.0 kW



## Controls

### WIFI Kit 2.0

Samsung's Wi-Fi Adapter provides control and monitoring without a Data Management Server (DMS) control.

#### Features

- Control up to 16 indoor units with a single Wi-Fi Adapter
- Monitor and control: mode, set temperature, fan speed, louver position, filter reminder (push notification), and error status
- 7 Day scheduling for a single unit or multiple indoor units
- Basic daily, weekly, or monthly energy consumption monitoring (for supported models only)
- Uses SmartThings App\*
- Group configuration allows for simple control of multiple units connected to the same Wi-Fi Adapter.



### Individual Control

Samsung offers a variety of controllers suitable for any application. Wired controllers, Touchscreen and Premium are available to purchase as an option.



Wireless Remote Controller

Touch Remote Controller

Wired Remote Controller

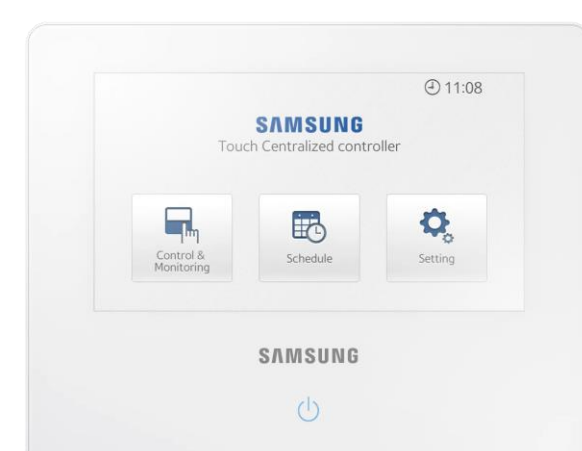
Premium Controller

### Centralized Controller

With a 7 in. LCD color touchscreen, the Touch Centralized Controller can control up to 128 indoor units and create up to 12 zones with a maximum of 10 scheduling options for precise temperature control in multiple zones.

#### Features

- Can connect and control up to 16 X DVM S systems
- F1/F2 (system) or R1/R2 (central control layer) connection
- 2 X digital input terminals for dry-contact connection to disable/enable all connected equipment.
- 1 X digital output terminal for system operation status output
- SD card slot for data backup and future software updates



## Controls

### DMS 2.5

Samsung's Data Management Server (DMS) lets you monitor and control your on-site air conditioning needs remotely. It's the easiest and most convenient way to manage a large number of air conditioning units at once

#### Features

- Easy Control and Monitoring
- Control up to 256 Indoor Units and up to 80 Systems.
- 24-hour standalone web-server
- No special software required.
- Customizable programmable logic for intelligent control
- Error History Management



### BMS Gateways

BMS systems features a range of standard communication protocols. Samsung supports all protocols such as BACnet, Modbus, KNX and LonWorks via Gateway.



BACnet



LonWorks



KNX



### Thermostat Kit

The thermostat Kit lets you operate a Samsung system air conditioner using a 3<sup>rd</sup> Party thermostat.

#### Features

- Compatible will all kinds of indoor units.
- Supply Power 24VAC.
- Controlled Mode: Set Temperature/Fan Speed/On-Off
- Net Dimension: W x H x D: 130 x 132 x 38 mm
- Digital Input and Output ports for error feedback





# Business with Samsung | Tools

## Easily and precisely design your entire system

### Samsung DVM Pro 2.0

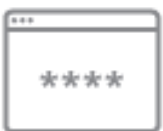
Samsung DVM Pro 2.0 is an advanced design automation program that helps you design your air conditioning system more easily and precisely. You can simply select the most suitable equipment from the entire range of Samsung air conditioner products and design the system with its user-friendly interface, which significantly improves usability.

## How to Access



### 1. Register

Go to the Samsung DVM Pro website\*. Simply complete the registration process and a confirmation email with access details will be sent to you.



### 2. Access

Using a temporary password, sign in to the website. If you want, you can then change the password.

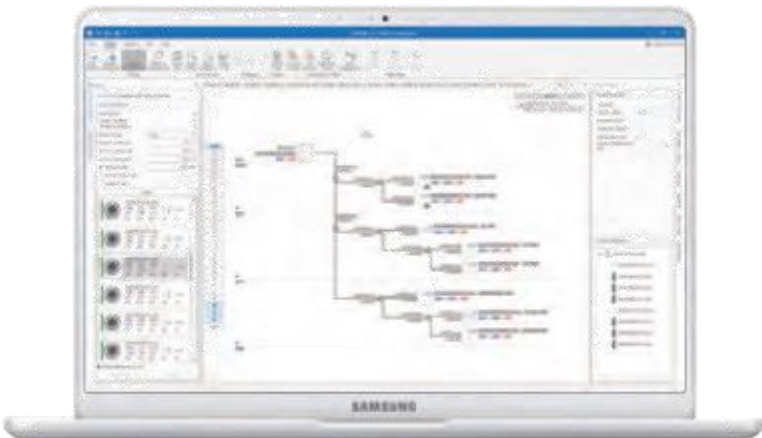


### 3. Download

Download the DVM Pro 2 installation file, view the user manuals, and start the design of your project.

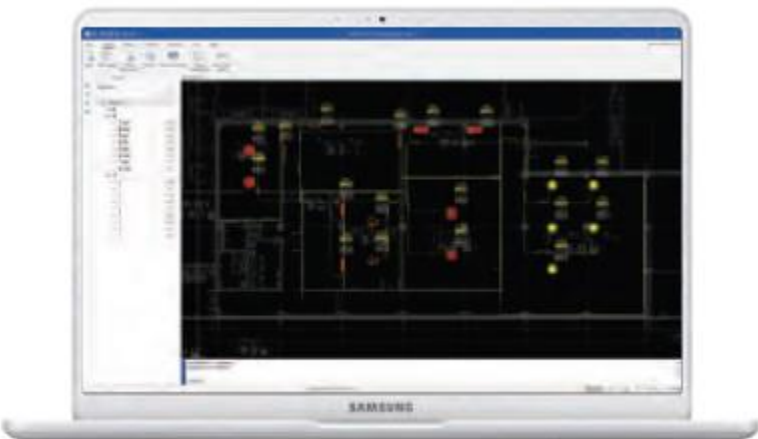
## Sales Mode

All design processes, including product selection, piping, wiring and system checks, are seamlessly integrated to provide a streamlined user experience, so you can respond to client requests rapidly. And, it includes an intuitive interface and a range of convenient features to simplify and speed-up the whole design process.



## Designer Mode

A dedicated CAD program, developed by Samsung, lets you design systems without the need for any expensive commercial CAD programs. It is also optimized with specialized features to design air conditioning systems.



# Business with Samsung | Engineering

## Always Optimizing your Air Conditioning System

### CAE (Computer Aided Engineering)

Samsung provides professional CAE support, with various analysis and evaluation services in the building design. Using the workstations and super computers of the Samsung Advanced Institute of Technology, multiple projects can be simulated simultaneously. It ensures that the building has an optimized air conditioning system that works effectively and efficiently and provides a comfortable indoor environment.

## How to Request



### 1. Prepare

Prepare drawing data in advance that shows the installation conditions:

- an installation location and the layout of outdoor units
- a machine room and its louver structure, if the outdoor units are installed in the machine room
- the building exterior and the layout of surrounding buildings
- the layout of indoor units.

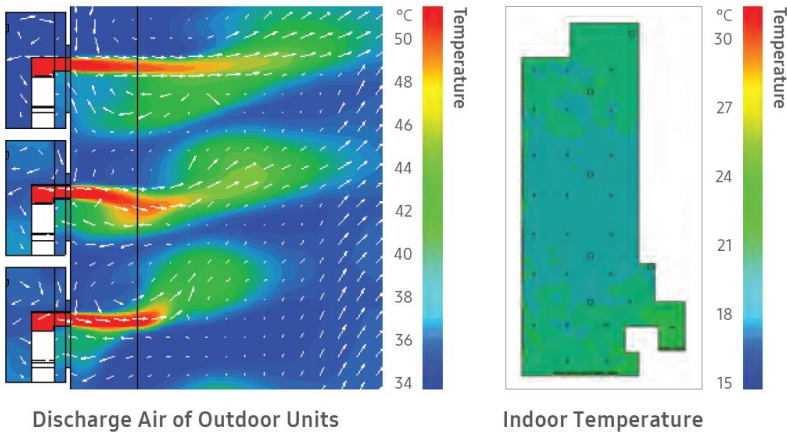


### 2. Request

Contact a Samsung technical expert in your area. And, request engineering support in providing prepared drawing data.

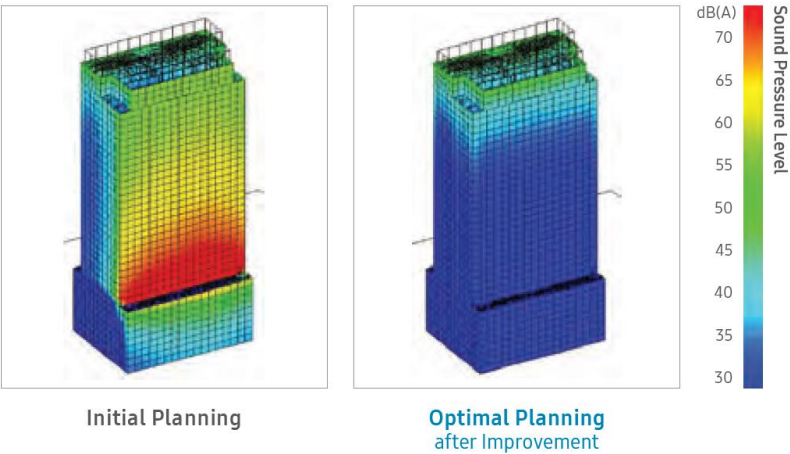
## CFD Analysis

Samsung supports CFD simulation and analysis to assess the performance of the Samsung air conditioning system before deciding on its installation location, and also provides a guidance report if it is necessary to change it.



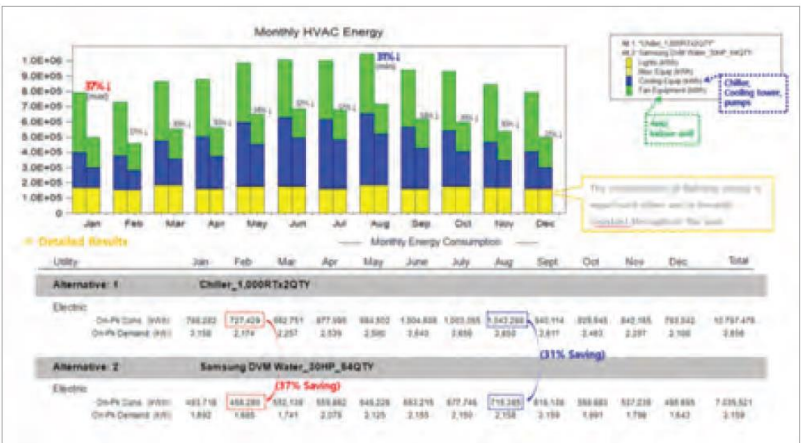
## Noise Analysis

Samsung provides noise effect evaluation, based on the location of indoor and outdoor units, by modeling the actual building design and data about the air conditioning system.



## Energy Simulation

Samsung helps conduct energy simulations to analyze the economical efficiency of the installed HVAC systems by evaluating the operation cost of each product category. This enables consultants to propose the optimal HVAC solution to their clients.





# Business with Samsung | Training

## Samsung Training Academy

**Samsung Gulf Electronics, Dubai Media City, Butterfly Building**

Welcome to the Samsung Training Academy! Samsung Training Academy has you covered. We strive to offer our customers and professionals the most comprehensive and in-depth trainings in comfortable, convenient, state-of-the-art Samsung Facility.

## What we offer

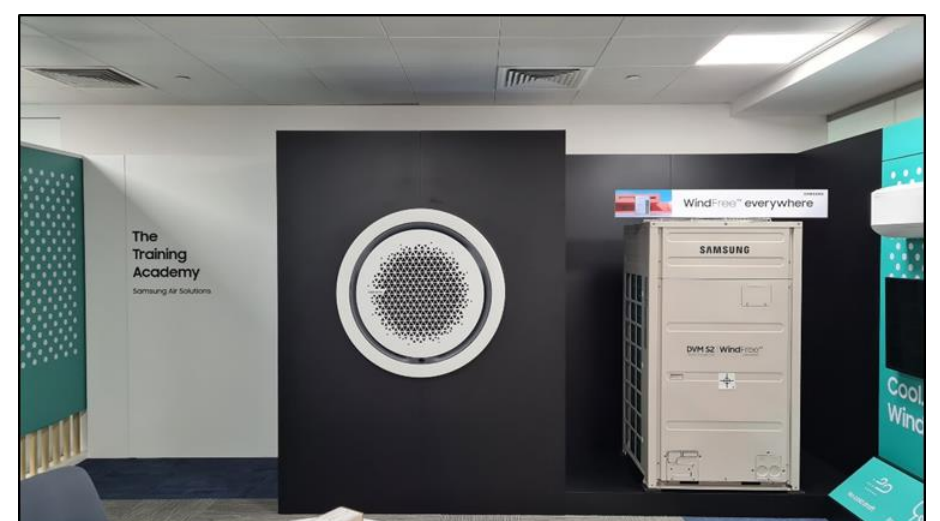
### Commercial and Design Training

- The product line-up, accessories and available controls
- The unique characteristics of Samsung products
- Installation considerations
- Designing with DVM Pro 2.0



### Installation and Service Training

- How to correctly install and configure a system
- Commissioning: common issues during commissioning
- Troubleshooting and fault finding (using error codes)
- Control logic
- Case studies



### Online Training

- 58 courses in the curriculum for sales, technical and design, which are available at any time and from anywhere using a PC or a mobile device.

- Anyone can enjoy SAC E-learning contents through the Samsung Business Academy (SBA) site.\*

*\*Contact your local supplier for more info*



**SAMSUNG**



## Mekar Company Profile



Deema Emadaldin <deema@mekar.ae>

To Alaa Qouneemy aalakhra@iffco.com

Cc Bharath Babu; Hiba Sukhon



Reply

Reply All

Forward



Thu 02/11/2023 14:56

If there are problems with how this message is displayed, click here to view it in a web browser.



Product Portfolio.pdf  
5 MB



Mekar\_Reference\_List.pdf  
7 MB



Samsung DVM S2 VRF system (2) (1).pdf  
6 MB



Consultant\_Brochure (2) (1).pdf  
2 MB



Project reference list.pdf  
2 MB

Dear Mr. Ahmad & Mr. Alaa,  
Hope this email finds you well.

Thank you for giving us the time and opportunity to meet you yesterday in your office, it was our pleasure.  
I would like to highlight a brief introduction about our company Mekar/Royal Gulf (Samsung):

### MEKAR Air Handling Units:

We are a specialist company for Air side products, Mekar is the regional office and the direct representative of Mekar Italy. To put in simple ways, We have supplied over 1000 prestigious projects across UAE/GCC such as: Burj Al Arab, Burj Khalifa, Yas Marina Hotel (surrounded by Formula-1 circuit), Dr. Sulaiman Al Habib, Al Rayyan Stadium, ISF Camp, Mafraq Hospital, Meydan and Shk Zayed grand mosque.

Royal Gulf is a part of MEKAR group and it's an authorized distributor for Samsung products VRF and DX Units. We have supplied major projects for Emaar, Al Wasl and many other important clients. The project references are Sidra-1, Sidra-2, Club Villas, Arabian Ranches, Emaar South, Al Warsn DHA Buildings, and Barakah Nuclear Plant.

As per our discussion, we would like to get the AC drawings along with the equipment schedule to be able to quote for the FAHUs and any AHUs for the 5 villas.

Also, I have attached our Mekar company portfolio, projects reference list, consultant brochure and the DVM S2 presentation for your reference.

Regards,

Deema Emadaldin

HVAC Energy Specialist

Mekar Air Handling Units LLC | Royal Gulf LLC

The Business Center, Suite 203, Khalid Bin Waleed Street

P.O.Box 24583, Bur Dubai, United Arab Emirates

Tel: +9714 3574469; Fax: +9714 3574479; Mobile: +971 50 2119138

Email: [deema@mekar.ae](mailto:deema@mekar.ae) | Website: [www.mekar.it](http://www.mekar.it)

# REFERENCE INSTALLATION LIST

Middle East



# MEKAR®

*“Life is in  
the Air”*



the best environmental control,  
of the world's tallest building

Burj Khalifa | Dubai

**829.80** meters high

**162** floors

**344,000** m<sup>2</sup>

**58** lifts

**39,000** tons of steel

**4** € million

**6,000** special Mekar's FCU



the best environmental control,  
of the ultimate hotel experience

## Burj Al Arab | Dubai

7 stars

202 suites

321 meters high

70,000 m<sup>3</sup>

230 meters of foundation

9,000 m<sup>2</sup> of steel

2.25 € million

2,000 special Mekar's FCU

650 special Mekar's AHU





the best environmental control,  
of the FIFA World Cup 2022 stadium



Al Rayyan Stadium | Qatar

FIFA World Cup 2022

44,740 seats

3,400 parking lots

GSAS certified

LEED certified

2.8 € million

865 Mekar's FCU

170 Mekar's AHU



Best high profile units  
in the most technologically  
advanced racing circuit of Formula 1

### Yas Marina Hotel | Abu Dhabi

**5,389** glass panels

**F1** integrated Formula 1 track

**499** rooms

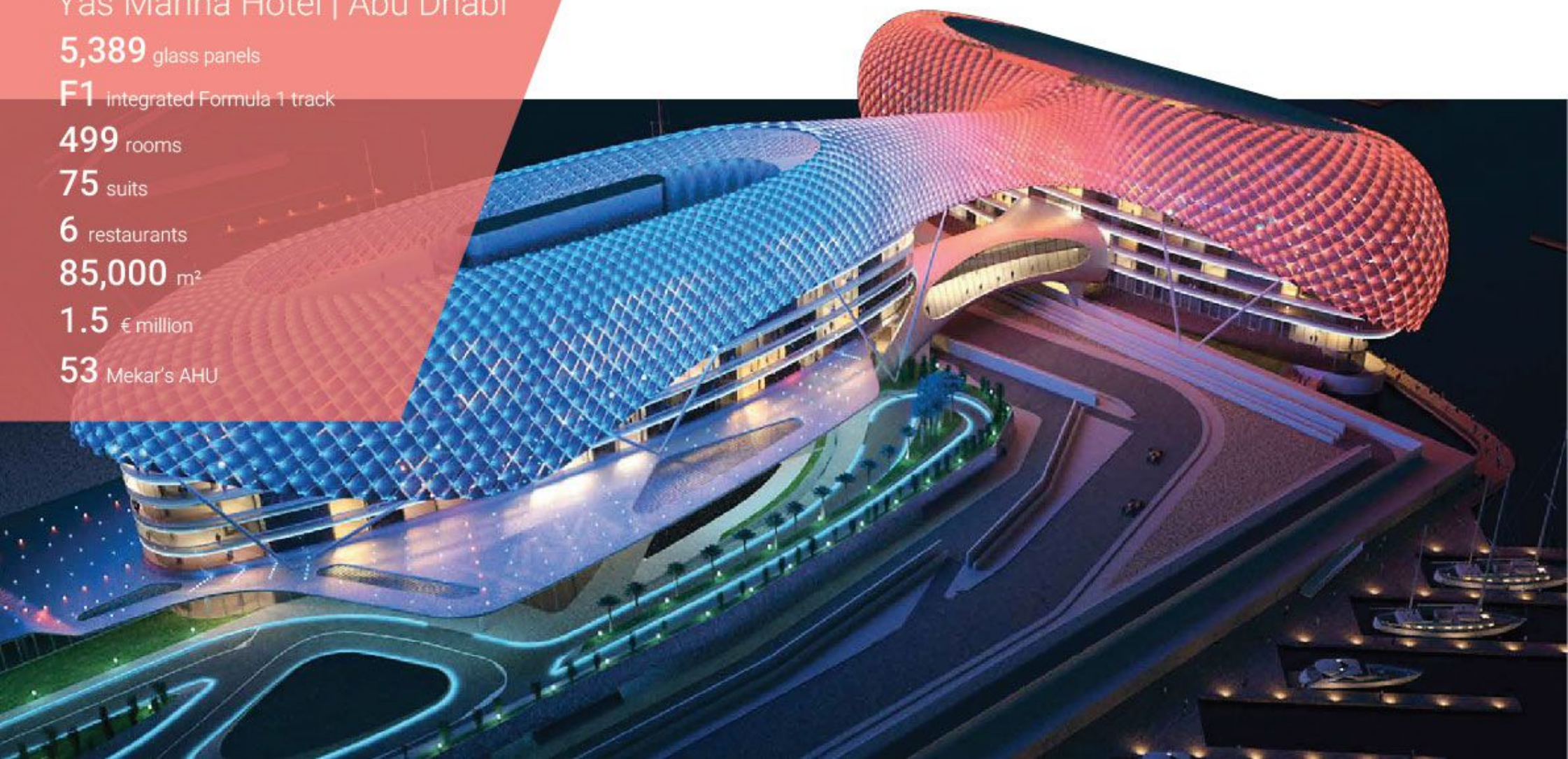
**75** suits

**6** restaurants

**85,000** m<sup>2</sup>

**1.5** € million

**53** Mekar's AHU





Tailor made units for  
a new generation of distinctive luxury

## The Royal Atlantis Resort | Dubai

**43** plans

**795** rooms

**231** residences

**13** restaurants

**90** pools

**173,398** m<sup>2</sup>

**2** € million

**4,000** Mekar's FCU





The ultimate energy efficient units  
for conceiving a better future for ourselves

## Museum of the Future | Dubai

**77** meters high

**7** floors

**30,000** m<sup>2</sup>

**10** lifts

**17,000** m<sup>2</sup> torus shaped stainless steel

**500** € thousand

**59** Mekar's AHU | 132 Mekar's FCU







Al Andalus School | Qatar



Al Mamoura Academy | Abu Dhabi



United School International at "Pearl" | Qatar





Al Mizhar Secondary School (ADEC) | Dubai



American Academy | Qatar



Secondary Technical School at Baniyas (ADEC) | Abu Dhabi



Abu Dhabi Future School, Madinat Zayed &amp; Ghayathi | Abu Dhabi







Dr. Sulaiman Habib Hospital | KSA



Infectious Diseases Hospital | Kuwait



Oasis Hospital | Al Ain



Mafraq Hospital | Abu Dhabi





Al Wakra Hospital | Qatar



Specialized Rehabilitation Hospital  
Abu Dhabi

Al Sila Hospital | Abu Dhabi



Bujreel Hospital- Reem Island  
Abu Dhabi

Latifa Hospital Al Jaddaf | Dubai



G42 COVID-19 Detection Laboratory  
Abu Dhabi

Naufar Hospital | Qatar



Al Salam Specialist Hospital | Bahrain





Doha Oasis | Qatar



Wafi Mall | Dubai



Deira Night Market (Extension) | Dubai



Boulevard Mall | Qatar



Dubai Mall | Dubai





## SHOPPING MALLS

Al Khail Avenue | Dubai



Bahrain City Centre

Marassi Galleria | Bahrain



Ruwais Mall | Abu Dhabi

North Gate Mall | Qatar



Cityland Mall | Dubai







Marsa Malaz Hotel | Qatar



Sofitel Palm Jumeirah | Dubai



Ibn Battuta Movenpick | Dubai







Imperial Avenue, Downtown | Dubai



Rosewood Hotel | Abu Dhabi



Al Mutahidah Tower | Qatar



Hilton Riyadh | KSA





## HOTELS



Riu Hotel, Deira Islands | Dubai



Westin Hotel | Doha

Fairmont Hotel Palm Island | Dubai



Alila Salalah Resort | Oman

The Meydan Hotel | Dubai



Vendome Hotel | Qatar







Burj Ramla | KSA



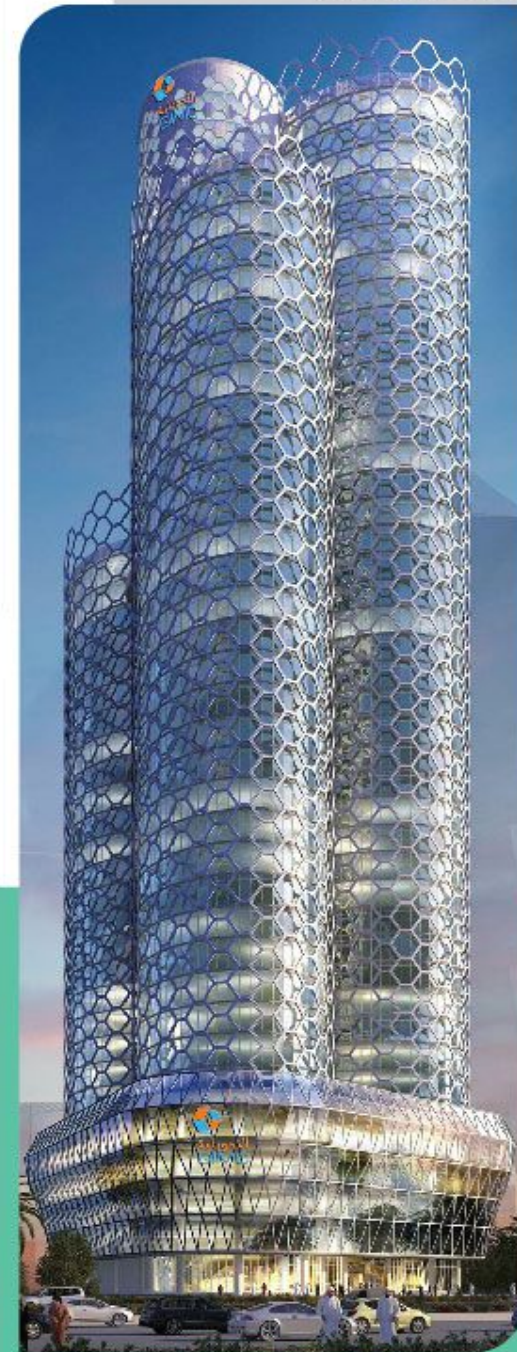
Katara Tower | Qatar



The Sail Tower | Abu Dhabi



QIMC Tower | Qatar









Handball Stadium | Qatar



Millennium Binghatti Residences | Dubai



Al Thuraya Tower | Qatar



SABB Headquarters | KSA





Twin Tower | Qatar



World Trade Centre | Qatar



Waterfront Towers | Abu Dhabi

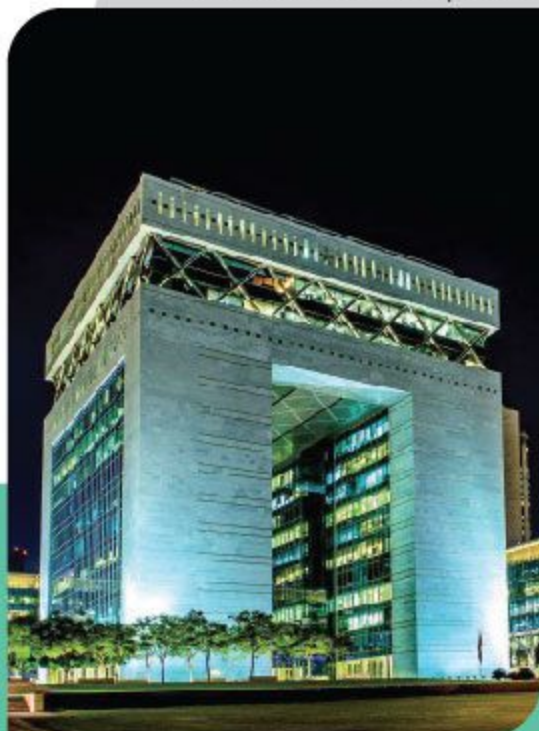


Bin Ghanem Office Building | Qatar

Burj Marina | Qatar



Financial District Gate | Dubai





Ministry of Justice & Federal Courts | Abu Dhabi



ISF Camp | Qatar



Khazna Data Centre | Dubai



Emirates Hanger | Dubai

Skyway Innovation Centre | Sharjah



Haramain High-Speed Railway Station  
| KSA



The Pulse | Dubai



Warsan 3 | Dubai

Saudi Electricity Company Headquarters  
| KSA



Qaryat Al Hidd Development  
| Abu Dhabi



Tiara Hotel, Palm Jumeirah | Dubai



SISD- Swiss International Scientific School | Dubai



Emirates Flight Catering (EKFC) | Dubai





Jumeirah Gate at JBR Marsa | Dubai



Marsa Arabia | Qatar



St. Regis Hotel | Oman



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
1	WAFI Residential Complex	Dubai	Residential	Ewbank International	1993	25	400
2	Dubai Equine Hospital for H H Shk Mohammed	Dubai	Health Care	Ewbank International	1994	6	0
3	Hilton Beach Club, Jumeirah	Dubai	Hotel	Ewbank International	1994	2	250
4	Beach Centre, Jumeirah (BURGER KING)	Dubai	Food Outlet	Kennedy & Donkin	1994	1	15
5	Sharjah TV Studio	Dubai	Studio	Ewbank International	1994	5	0
6	C56 Building in Corniche Area, Al Dana Tower	Abu Dhabi	Residential	Syr Consultants	1994	2	600
7	Dubai World Trade Centre, Residential Central Plant	Dubai	Residential	Dar Al Handasah	1995	1	20
8	Dubai World Trade Centre, 4 New Exhibition Halls	Dubai	Expo 2020 Hall	Dar Al Handasah	1995	8	15
9	Shk. Mana & Shk. Mohd. Hotel - Deira (LORD HOTEL)	Dubai	Hotel	Ian Banham and Associates	1995	4	400
10	Emirates Training Centre, Garhoud	Dubai	Education	RMJM Consultants	1995	15	30
11	Al Bustan Centre, Al Ghusais	Dubai	Mixed Use	W S Atkins	1995	4	800
12	Al Bustan Centre, Al Ghusais	Dubai	Mixed Use	W S Atkins	1995	2	350
13	Guest Villa, Al Ain Palace	Dubai	Villa	Ewbank International	1995	1	30
14	Al Mas Cinema	Dubai	Entertainment	Al Mas Consultants	1995	4	15
15	Dubai Air Show '95	Dubai	Open Theater	Dept. of Civil Aviation	1995	6	25
16	New Spinney's Retail Outlet, Dubai	Dubai	Shopping	W S Atkins	1995		
17	Sea Palace	Abu Dhabi	Villa	Syr Consultants	1995		
18	Dubai Economic Building - Al Ramool	Dubai	Offices	Arif & Bintook	1996		
19	New Al Abbas Building - ANZ Grindlays Bank, Dubai	Dubai	Offices	Ewbank International	1996	2	600
20	Sun & Sand Hotel, Deira	Dubai	Hotel	Ian Banham and Associates	1996	2	350
21	Jumeirah Beach Resort Development - Beach Restaurant	Dubai	Restaurant	W S Atkins	1996	2	25
22	Royal Imperial Residence, Bur Dubai	Dubai	Hotel	Ian Banham and Associates	1996	2	360
23	Welcare Hospital	Dubai	Health Care	Chawla Consultants	1996		
24	Jumeirah Beach Resort Development - Conference Center	Dubai	Hotel	W S Atkins	1996	15	0
25	Shk Mohd Bin Khaled Al Nahyan, Private Development	Abu Dhabi	Villa	Syr Consultants	1996		
26	BURJ AL ARAB - 7 Star Hotel	Dubai	Hotel	W S Atkins	1997	635	1003
27	Comm. Bldg. for Mohammad Bin Masood & Sons	Dubai	Offices	Schuster PP	1997	2	350
28	Jebel Ali Hotel Extension	Dubai	Hotel	Kennedy & Donkin	1997	4	250
29	JBRD Staff Accommodation at Al Qoz. Phase I & II	Dubai	Residential	W S Atkins	1997	6	650
30	DUBAL General Amenities Building	Dubai	Offices	Kennedy & Donkin	1997	1	0
31	WAFI Pyramid Health Club	Dubai	Health Care	Kennedy & Donkin	1997		
32	JBRD Staff Accommodation - Club House	Dubai	Entertainment	W S Atkins	1997	4	55
33	DUBAL Administration Building	Dubai	Offices	Kennedy & Donkin	1997	1	0
34	Ritz Carlton - Jumeirah (ABJAR Group)	Dubai	Hotel	Kennedy & Donkin	1997	45	0
35	WAFI Planet Hollywood	Dubai	Entertainment	Kennedy & Donkin	1997	1	112
36	JBRD Aqua Park Chalets & Projector Room	Dubai	Entertainment	W S Atkins	1998	4	115
37	JBRD Staff Accommodation - Phase II	Dubai	Residential	W S Atkins	1998	4	600



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
38	City Center, Dubai – Fashion Café	Dubai	Showroom	Mott MacDonald	1998		20
39	Ajman City Center	Ajman	Shopping	Kennedy & Donkin	1998	16	120
40	Dubai Airport Free Zone –Phase I Building	Dubai	Offices	Dar Al Handasah	1998	45	0
41	Dubai Airport Free Zone Reception Building	Dubai	Offices	Dar Al Handasah	1998		
42	CBRD Aqua Park Package 5410	Dubai	Entertainment	W S Atkins	1998		
43	Al Shola Complex	Dubai	Offices	Khatib & Alami	1998	4	850
44	Al Naboodah Commercial & Residential Building	Dubai	Residential	Ian Banham and Associates	1998	2	412
45	Al Naboodah Office Tower	Dubai	Offices	Ian Banham and Associates	1998	2	415
46	Mazaya Center Extension	Dubai	Shopping	ARTEC Consultants	1998	12	500
47	Safa Park Villa - EO	Dubai	Villa	ARENCO	1998	1	0
48	Dr. Juma Khalfan Abdulhoul Building	Dubai	Offices	NUTEK Consultants	1998		
49	New Emirates Coop Society Shopping Centre at Al Ghusaia	Dubai	Shopping	Al Hatmy Consultants	1998	15	30
50	JBRD Staff Accommodation – Phase IV	Dubai	Residential	W S Atkins	1999	4	900
51	Ajman City Center – Phase II	Dubai	Shopping	Kennedy & Donkin	1999	15	200
52	Gulf Soap Factory Extension	Dubai	Factory	Al Hatmy Consultants	1999		
53	G +11 Building for Dr. Abdulla Hamadi at Sharjah	Dubai	Offices	NUTEK Consultants	1999		
54	Emirates Golf Club Extension	Dubai	Entertainment	CASP - MEP	1999		
55	Shk. Ahmed Building, Zabeel Road	Dubai	Residential	Kennedy & Donkin	1999	4	2200
56	Business Centre for Qassim Sultan	Dubai	Offices	Kennedy & Donkin	1999	6	550
57	Rais Hassan Saddi – Distribution Centre at JAFZA	Dubai	Warehouse	Kennedy & Donkin	1999		
58	Gobash Building	Dubai	Offices	Mott MacDonald	1999	2	450
59	Gulf & Safa Dairy	Dubai	Offices	W S Atkins	1999		
60	Al Bayan Printing Press Building	Dubai	Printing press	Engineer's Office	1999	15	35
61	CBRD Staff Accommodation – Phase III	Dubai	Residential	W S Atkins	1999	4	850
62	Emirates Airline, Al Sawari Tower C	Abu Dhabi	Offices	Syr Consultants	1999		
63	Al Shamsi Tower B, Mercedes Benz Bldg, Abu Dhabi	Abu Dhabi	Showroom	Syr Consultants	1999		
64	Al Quoz Industrial Development	Dubai	Offices	Engineer's Office	2000	2	120
65	DCC Cinema Complex	Dubai	Entertainment	Farmer Cortese	2000	6	0
66	Al Owais Building	Dubai	Residential	Kennedy & Donkin	2000	2	800
67	G+M+3 Bldg for Shk. Mohd Bin Hasher Maktoum	Dubai	Residential	PHB	2000	4	400
68	Management Residency Building - Jumeirah International	Dubai	Education	W S Atkins	2000	2	350
69	B+G+ M+3 Comm & Resl Bldg on Oudh Metha Road	Dubai	Mixed Use	Ian Banham and Associates	2000		
70	Al Makhawi Building	Dubai	Residential	W S Atkins	2000		
71	Dubai Poly Film	Dubai	Factory	Ian Banham and Associates	2000		
72	Fujairah Resort	Dubai	Hotel	Mario Associates	2000		
73	Sharjah City Center	Sharjah	Shopping	Kennedy & Donkin	2000	10	112
74	T & B International, Jebel Ali	Dubai	Offices	Model Engineering	2000		

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
75	National Bank of Dubai, Sharjah	Dubai	Offices	Kennedy & Donkin	2001	2	400
76	Spinney's	Dubai	Shopping	Ian Banham and Associates	2001	2	181
77	Cultural Centre	Dubai	Museum	Kennedy & Donkin	2001	20	295
78	Dubai Media City (TAJ Studio)	Dubai	Studio	Ian Banham and Associates	2001		
79	Jumeirah Beach Hotel – Leisure Lounge	Dubai	Hotel	W S Atkins	2001	3	50
80	Dubai World Trade Centre – Hall No.8	Dubai	Expo 2020 Hall	RMJM Consultants	2001	18	10
81	Victory Team Relocation	Dubai	Sports	Kennedy & Donkin	2001	12	76
82	RAK Cement Factory	Dubai	Factory	Ian Banham and Associates	2001		
83	G+4 Building for Mr. Mohd. Saleh	Dubai	Residential	—	2001		
84	Audi Showroom	Abu Dhabi	Showroom	Golden Planners Consultants	2001		
85	Emirates Aviation Training Center	Dubai	Education	Ian Banham and Associates	2002	35	102
86	Darnad Medical Factory	Dubai	Factory	Elite Design & Engineering Consultancy	2002	15	
87	Ali Bujsaim Building	Dubai	Residential	Development Board	2002	2	114
88	Dubai World Trade Centre – Hall No. 1 & 2	Dubai	Expo 2020 Hall	RMJM Consultants	2002	31	176
89	G+1 Villa at Al Safa	Dubai	Villa	GEMAC	2002	1	0
90	Emirates Hills	Dubai	Residential	Ian Banham and Associates	2002	28	
91	Al Nasr Sport Club	Dubai	Sports	Ian Banham and Associates	2002		
92	Dubai Islamic Bank	Dubai	Offices	Ian Banham and Associates	2002		
93	Madinat Jumeirah Phase 2(Hotel)	Dubai	Hotel	RPW Consultants	2002	79	
94	Dubai Media City – 4 Nos. Residential Building	Dubai	Residential	Mario Associates	2002	635	190
95	Dubai Media City – Leo Brunnett	Dubai	Offices	Mario Associates	2002	3	76
96	Madinat Jumeirah - Staff Accommodation	Dubai	Residential	Ian Banham and Associates	2002	19	1269
97	Dubai World Trade Centre – Al Wasl Building	Dubai	Offices	RMJM Consultants	2002		
98	Al Raha Beach Hotel	Abu Dhabi	Hotel	DMJM Consultants	2002		
99	IBIS Hotel Extension – Dubai World Trade Centre	Dubai	Hotel	RMJM Consultants	2003	5	22
100	Commercial Building Kasim Mohd. Al Khafaji, Umm Hurair	Dubai	Offices	Ian Banham and Associates	2003	4	
101	Dubai Air Port Freezone – Phase III	Dubai	Offices	Ian Banham and Associates	2003	28	50
102	Wafi Shopping Mall – Anchor Bldg. Extn	Dubai	Shopping	Roberts & Partners	2003		
103	Siemens Building @ Knowledge Village	Dubai	Offices	Ian Banham and Associates	2003	24	117
104	Knowledge Village II, B+G+3(6 Bldgs) for DTMFZ	Dubai	Education	DAR Consult	2004	26	463
105	Grosvenor House, 45 Storey Bldg for HH Sheikh Ahmed	Dubai	Hotel	Arcon Consultants	2004	33	1016
106	Madinat Jumeirah, Phase 3	Dubai	Hotel	RPW Consultants	2004	92	
107	Arabian Ranches, Club House	Dubai	Recreation	RMJM Consultants	2004	16	
108	Arabian Ranches, Golf Club	Dubai	Recreation	RPW Consultants	2004		57
109	Zulekha Hospital	Dubai	Health Care	Mechwatt Consultants	2004	2	
110	Knowledge Village	Dubai	Education	Ian Banham and Associates	2004	26	48
111	Gate Building, DIFC	Dubai	Mixed Use	Roberts & Partners	2004		208



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
112	Dubai Metals & Commodities Building	Dubai	Infrastructure	---	2004	81	420
113	Hilton Beach Club	Dubai	Hotel	Roberts & Partners	2004	6	110
114	Hyatt Regency Hotel, AHUs & FCUs replacement	Dubai	Hotel	WSP	2004	11	400
115	Dubai Auto Dome	Dubai	Offices	W S Atkins	2004	11	120
116	A22A, Bassam Tower at Dubai Marina	Dubai	Residential	W S Atkins	2004	23	1078
117	Emirates New Engineering Center	Dubai	Education	Ian Banham and Associates	2004	36	123
118	G + 5 Building at Hor Al Anz	Dubai	Residential	Ian Banham and Associates	2004		
119	G + 38 Building at Al Quoz	Dubai	Residential	Ian Banham and Associates	2004		
120	Mankhool Tower for Sheikh Ahmed	Dubai	Hotel	Ian Banham and Associates	2004	2	304
121	Gold Crest Residential Tower	Dubai	Residential	W S Atkins	2005		
122	2B+G+6 Plot No 313, Al Hamriya	Dubai	Offices	National Engineering Bureau	2005		
123	Knowledge Village – Academy City	Dubai	Education	Ian Banham and Associates	2005	0	0
124	Magic Planet – Mall of Emirates	Dubai	Entertainment	WSP	2005		
125	Water Front Apartments	Dubai	Residential	Ian Banham and Associates	2005		
126	Jumeirah English Speaking School	Dubai	Education	W S Atkins	2005		
127	Jaddaf Tower	Dubai	Residential	W S Atkins	2005		
128	Cine Star Complex – Mall of Emirates	Dubai	Entertainment	WSP	2005		
129	Giant Super Market – Rashidiya	Dubai	Shopping	WSP	2005		
130	B + G + 12, Al Barsha	Dubai	Residential	Ian Banham and Associates	2005		
131	Dubai Sky Gardens, Phase II	Dubai	Residential	Ian Banham and Associates	2005	12	900
132	Al Owais Building	Dubai	Residential	RPW Consultants	2005	4	800
133	G + 7 Resi Building at Jaddaf	Dubai	Offices	Ian Banham and Associates	2005		
133	G + 3 Building, Um Hurair	Dubai	Residential	DAR Consult	2005		
135	G + 7 Resi Building at Jaddaf	Dubai	Residential	Arif & Bintok	2005		
136	Dubai City Centre, Bin Hindi	Dubai	Food Outlet	Mott MacDonald	2005		
137	G + 7, Butti Obaid Butti	Dubai	Residential	Totentec	2005		
138	Bob Al Shams, Endurance City	Dubai	Entertainment	RPW Consultants	2005		
139	Suleiman Al Habib Medical Centre	Dubai	Health Care	Arif & Bintok	2005	37	116
140	Old Town Development, Phase 1	Dubai	Residential	Allied Consultants	2005	16	
141	Harvey Nichols @ Mall of Emirates	Dubai	Showroom	WSP	2005		
142	Persian Restaurant @ Meadows	Dubai	Restaurant	Design Consultants	2005		
143	Dubai Community Theatre & Arts Centre	Dubai	Museum	WSP	2005	11	
144	Shk Zayed Mosque	Abu Dhabi	Mosque	Hyder Consulting	2005		210
145	Green Lakes Residential	Dubai	Residential	ARCH Group	2006	6	2239
146	Emirates Crew Training College	Dubai	Education	Ian Banham and Associates	2006	32	
147	DMCC- Gold & Silver Towers	Dubai	Offices	Ian Banham and Associates	2006	76	
148	Palm District Cooling - Palm Jumeirah Trunk Project	Dubai	Infrastructure	Hyder Consulting	2006		

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
149	GATE Village @ DFC	Dubai	Mixed Use	Hyder Consulting	2006		208
150	Marina View Twin Tower @ Marsa	Dubai	Residential	Adnan Saffarini	2006		
151	Allied Superhub & Warehouses	Dubai	Warehouse	Halcrow Consultants	2006		
152	Knowledge Village @ Academic City, Phase 2	Dubai	Education	Ian Banham and Associates	2006	3	0
153	Emirate Flight Catering Facility	Dubai	Food Catering	Ian Banham and Associates	2006	57	4
154	The Dubai Mall	Dubai	Shopping	Meinhart consultants	2006		606
155	Emaar Business Park Phase I & II	Dubai	Offices	Ian Banham and Associates	2006	91	
156	Burj Dubai Project(Burj Khalifa)	Dubai	Mixed Use	Hyder Consulting	2007		5800
157	Dubai Municipality Branch Office at Al Twar	Dubai	Mixed Use	Tangram Architects & Consultants	2007		
158	IBN Batuta Gate Complex(Hotel Building)	Dubai	Mixed Use	Dar Al Handasah	2007	37	1476
159	Burj Dubai Lake Hotel(Address Hotel)	Dubai	Hotel	W S Atkins	2007		2378
160	G+55 Storey Commercial Office & Residential tower & G+8 Car Parking Building	Dubai	Mixed Use	Ian Banham and Associates	2007	6	2000
161	Dubai World Trade Centre, Residences	Dubai	Offices	Hyder Consulting	2007	10	
162	Dubai Sky Gardens	Dubai	Residential	W S Atkins	2007		
163	Sheraton Hotel Staff Accomodation	Dubai	Residential	Ian Banham and Associates	2007		
164	Ducto Group Head Quarters Building	Dubai	Offices	Mario Associates	2007		
165	Al Sofouh Tower at TECOM	Dubai	Residential	Ian Banham and Associates	2007		
166	Masar Printing Press	Dubai	Printing press	Ian Banham and Associates	2007	16	
167	Al Nasr Sports Club	Dubai	Residential	Ian Banham and Associates	2007		
168	Al Tayer Tower	Dubai	Residential	Ian Banham and Associates	2007		
169	Al Rostamani Tower G + 55	Dubai	Offices	Ian Banham and Associates	2007		
170	Al Rand Tower	Dubai	Offices	Ian Banham and Associates	2007		
171	Al Naboodah Shopping Centre	Dubai	Shopping	ARCH Group	2007		
172	Golf Tower, Phase II	Dubai	Residential	National Engineering Bureau	2007		
173	Saba Tower, Phase II & III	Dubai	Residential	RMJM Consultants	2007	8	1862
174	Shk Ahmed Towers (3 nos) @ Jumeirah Lake Towers	Dubai	Residential	ARCH Group	2007	6	2222
175	Salam Industrial Park	Dubai	Infrastructure	Ian Banham and Associates	2007		
176	Tecom Office Tower	Dubai	Offices	Al Gurg Consultants	2007		
177	GCAA New Area Navigation	Abu Dhabi	Others	RMJM Consultants	2007		
178	Land Mark Shopping Mall	Qatar	Shopping	Arab Engineering Bureau	2007		
179	RTA Bus Depot at Ruwayah	Dubai	Infrastructure	Jurong International Consulting	2008		
180	2B+G+ 12 Comm./Resi. Building	Dubai	Residential	DAR Consult	2008		
181	Taj Grandeur Residences	Dubai	Hotel	ARCH Group	2008		
182	2B+G+M+ 12 Office & Furnished Apts.	Dubai	Mixed Use	ARCH Group	2008		
183	Meydan Racing district Development	Dubai	Entertainment	CKR Consulting Engineers	2008		
184	Gateway Towers & Carpark Podium Project	Dubai	Infrastructure	W S Atkins	2008		
185	Movenpick Hotel & Spa & Oceana Residences	Dubai	Hotel	Dar Al Handasah	2008		3145



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
186	Anantara Tiara Residences, Palm Jumeirah	Dubai	Residential	Dar Al Handasah	2008	45	3900
187	Al Fattan Hotel & Appartment at Palm Jumeirah	Dubai	Mixed Use	Proleed Consultants	2008		
188	2B+G+8 Comm Residential Building	Dubai	Mixed Use	SPP	2008		
189	2B+G+ 16 Comm and Residential Building	Dubai	Mixed Use	Arif & Bintok	2008		
190	Dubai Rehabilitation Centre	Dubai	Residential	Schuster PP	2008		
191	RAK Silicon Oasis	Dubai	Residential	Mario Associates	2008		
192	Business Park at Business Bay, Dubai Properties	Dubai	Offices	Kling Consult	2008		2600
193	Dubai Mall Project-Tenant FitOuts	Dubai	Showroom	---	2008		
194	Laguna Tower	Dubai	Residential	Al Gurg Consultants	2008		
195	Oceana Heights, Dubai Marina	Dubai	Residential	Ian Banham and Associates	2008		
196	One at Business Bay	Dubai	Offices	Spec Consultants	2008		
197	Bays Water Tower	Dubai	Offices	Dynamic Consultants	2008		
198	3B + G + 6 Commercial Bldg	Dubai	Offices	Mario Associates	2008		
199	Fairmont Residences, IFA	Dubai	Residential	RPW Consultants	2008	63	
200	Salam Studio	Dubai	Studio	Clarke Samadhin	2008		
201	First Gulf Bank	Dubai	Offices	---	2008		
202	2B+G+3 Comm Resi Bldg	Dubai	Residential	Ian Banham and Associates	2008		
203	Al Shafar Development	Dubai	Residential	W S Atkins	2008		
204	2B+G+29 @ Internet city	Dubai	Residential	Al Ajmi Engineering Consultants	2008		
205	2B+G+M+7 Comm & Resi Bldg	Dubai	Residential	Arif & Bintok	2008		
206	2B+G+16 Residential Commercial Building at Al Nahda	Dubai	Mixed Use	Schuster PP	2008		
207	RAK Bank @ RAK	Dubai	Offices	Mario Associates	2008		
208	B+G+10 Residential Commercial Building at Al Nahda	Dubai	Mixed Use	Arif & Bintok	2008		
209	Vision Tower	Dubai	Offices	Dewan Al Emara	2008		
210	Hotel & Staff Accomodation - Baniyas Island	Abu Dhabi	Hotel	Norr Consultants	2008		
211	Yas Marina Hotel	Abu Dhabi	Hotel	Red Engineering	2009		
212	Burj Al Salam(Sheraton Hotel & Office)	Dubai	Mixed Use	DAR Consult	2009	40	1200
213	Jabel Ali Industrial Bus Depot	Dubai	Infrastructure	CRH Consulting Engineer	2009		
214	Nad Al Sheba, Race Course	Dubai	Entertainment	Teo A Kling	2009		
215	G + 2, Police Station	Dubai	Infrastructure	Al Fahidi Consulatant	2009		
216	Medical Centre @ Dubai Mall	Dubai	Health Care	---	2009		
217	Watch Gallery @ Dubai Mall	Dubai	Showroom	---	2009		
218	Kinokiyu Book Store @ Dubai Mall	Dubai	Showroom	---	2009		
219	Down Tower, Jebel Ali	Dubai	Offices	Lehr Consultants	2009		
220	Technopark Head Quarters	Dubai	Offices	Ian Banham and Associates	2009		
221	IBN Batuta – Hotel Building	Dubai	Mixed Use	Dar Al Handasah	2009	42	1235
222	Jumeirah Heights	Dubai	Residential	ARENCO	2009		

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
223	2B+G+M+34 at Tecom	Dubai	Offices	Dubai Consultants	2009	25	
224	V76, Platinum Tower	Dubai	Residential	Ian Banham and Associates	2009		
225	Mariott Hotel Extension	Dubai	Hotel	Proleed Consultants	2009		
226	Sky Courts Apartments	Dubai	Residential	LA CASA Architect & Engineering Consultants	2009		4717
227	Meydan District Cooling Project	Dubai	Infrastructure	---	2009		
228	Cinestar, Mirdiff City Center	Dubai	Entertainment	Red Engineering	2009		
229	Fitness First-Mirdiff City Center	Dubai	Sports	Diplomat Engineering	2009		
230	2B+G+18 Tecom Building	Dubai	Offices	Proleed Consultants	2009		
231	Nabil Ali Bin Ali Villas	Qatar	Villa	---	2009		
232	Al Wakra Hospital	Qatar	Health Care	GHD Global	2009		700
233	Bahrain City Center	Bahrain	Shopping	Mott MacDonald	2009		
234	Palm Jumeirah Resort & Spa	Dubai	Hotel	Mirk	2010	41	
235	Al Ghurair City Expansion -II	Dubai	Shopping	Arif & Bintook	2010		
236	Lagoona Beach Hotel	Dubai	Hotel	---	2010		
237	DAMAC Park Tower at DIFC	Dubai	Residential	Engineering Consulting Group	2010		
238	Meydan Grand Stand Extension 6,7,8,9,10,11 Floors	Dubai	Entertainment	Proleed Consultants	2010		
239	B + G + 3 University Campus Building, Academy City	Dubai	Education	Proleed Consultants	2010		
240	Dubai Sports City – Stadium	Dubai	Stadium	ARUP Consultants	2010		
241	Fairmont Hotel – Palm Jumeirah	Dubai	Hotel	Proleed Consultants	2010		
242	Oberoi Hotel - Business Bay	Dubai	Hotel	Halcrow Consultants	2010		
243	G + 1 Building, Plot Knowledge Village5, Academy City	Dubai	Education	Ian Banham and Associates	2010		
244	Construction of Married Staff Accommodation, Facilities and Related Infrastructure- Package- 6B & 6C	Abu Dhabi	Residential	ADNOC	2010		
245	Al Muneera- Khol Al Raha- Al Raha Beach	Abu Dhabi	Residential	Waterman Emirates	2010	76	
246	Weatherford Manufacturing & Training Facility	Abu Dhabi	Factory	Spec Consultants	2010		
247	Crown Plaza & Business Park	Qatar	Mixed Use	Arab Engineering Bureau	2010		790
248	Regent hotel	Qatar	Hotel	KEO International	2010	45	800
249	Qatar Silhouette Tower Conference Centre	Qatar	Offices	Hill International	2010	17	
250	JK-50 Zikreet Office Building	Qatar	Offices	Halcrow Consultants	2010	5	90
251	Inter Continental Hotel & Silhouette Tower	Qatar	Mixed Use	Shaker	2010	55	150
252	Construction of the New Head Quarter Building for Ministry of Defence Pension fund	Dubai	Offices	Gulf Engineering Consultants	2011		
253	Residential Tower on Plot no. 50 & 51	Dubai	Residential	Arif & Bintook	2011		
254	Sharjah Beach Resort Hotel	Sharjah	Hotel	QHC Architects & Engineers	2011		
255	Sofitel Staff Accommodation	Dubai	Residential	Mirk	2011		
256	Al Shamshi Office Building	Dubai	Offices	Kling Consult	2011		
257	Teaching Staff Housing- Ministry (First Stage)	Saudi Arabia	Residential	TYPSA Consulting Engineers & Architects	2011		3431
258	Abu Dhabi Airbase	Abu Dhabi	Offices	Dorsch Gruppe- DC Abu Dhabi	2011		
259	Abudhabi Future Schools Program- Package-6	Abu Dhabi	Education	Dewan Architects & Consultants	2011		



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
260	Abudhabi Future Schools Program- Phase 2- Package -2 (Al Ain)	Abu Dhabi	Education	Dewan Architects & Consultants	2011		
261	Rosewood Abudhabi	Abu Dhabi	Hotel	WSP	2011	47	970
262	Ruwais Shopping Mall	Abu Dhabi	Shopping	ADNOC	2011	33	95
263	Al Wifaq Tower	Abu Dhabi	Residential	Mayer Consultants	2011		
264	Private Villa (BVS-42) B+G+2	Qatar	Villa	Arab Engineering Bureau	2011		
265	Energy Centre & Multilevel Car Park at Onaiza Road	Qatar	Mixed Use	Projacs	2011	17	110
266	World Trade Centre	Qatar	Offices	MZ & Partener	2011	154	
267	Showroom & office Building	Qatar	Offices	DW AN	2011		
268	Aspire Zone	Qatar	Stadium	Projacs	2011		
269	Al Nassar Showroom	Qatar	Showroom	James & Cubit	2011		
270	School Projects	Qatar	Education	Ministry of Education	2011	34	
271	Jaidha Villa	Qatar	Villa	Arab Engineering Bureau	2011	5	40
272	Ramada Hotel Fit out project	Qatar	Hotel	KEO International	2011		
273	Emirates Engineering Centre- New light maintance hanger	Dubai	Infrastructure	Hill International	2012		
274	Kingdom of SHEBA	Dubai	Hotel	Associated Consulting Engineers	2012		
275	Warehouse and Shed	Dubai	Warehouse	Alkhawjah Engineering Consultancy	2012		
276	Private Villa @ Al Mizhar	Dubai	Villa	Mario Associates	2012		
277	Lake Side Tower	Dubai	Residential	ZASPAS	2012		
278	Oasis Hospital	Al Ain	Health Care	Aurecon, ECDG	2012		
279	Students Accomodation @ Knowledge Village	Dubai	Residential	Proleed Consulants	2012		
280	International Holy Quran Building,	Dubai	Mosque	ARTEC Consultants	2012		
281	German Embassy	Saudi Arabia	Offices	Buro Happold	2012		
282	Akkadian Pent House	Abu Dhabi	Residential	CKR Consulting Engineers	2012		
283	Hydra Avenue	Abu Dhabi	Residential	MZ Consultants	2012		2230
284	Southern Sun	Abu Dhabi	Hotel	Derby Consultants	2012		525
285	Construction of Ghanem Holdings Office Building	Qatar	Offices	Arab Engineering Bureau	2012	12	90
286	Doha Festival City- 7500 Energy Centre	Qatar	Shopping	Arab Engineering Bureau	2012	3	36
287	Burj Marina 08	Qatar	Mixed Use	Dara Engineering Consultant	2012	45	670
288	Salwa Resort Phase I	Qatar	Hotel	Associated Consulting Engineers	2012	34	360
289	North Gate Phase I- Mall & Office Building	Qatar	Shopping	GHD Global	2012	62	540
290	Twin Towers Project	Qatar	Mixed Use	Architectural Consulting Group	2012	54	1470
291	City Centre Doha, Reconstruction Phase II	Qatar	Shopping	GHD Global	2012		
292	Al Deeble Tower	Qatar	Offices	Projacs	2012	330	
293	Court Complex @ Rustaq	Oman	Infrastructure	Gulf Engineering Consultants	2012	21	6
294	New Head Quarters Building – Ministry of Defense	Oman	Offices	Gulf Engineering Consultants	2012	7	
295	Medeor Hospital- 3B + G + M + 5 Floor, Umm Hurair	Dubai	Health Care	DAR Consult	2013	40	191
296	Al Fahad-II Residential Tower	Dubai	Residential	Associated Consulting Engineers	2013	4	858

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
297	Emirates Hangers – Dubai	Dubai	Infrastructure	ADPI	2013	42	108
298	Bourn Hall IVF Centre, Clinic	Dubai	Health Care	Hosmac	2013		
299	Prime Medical Hospital	Dubai	Health Care	Dubai Consultants	2013	31	
300	Labour Accomodation	Dubai	Residential	—	2013		
301	Mina Al Fajer – Fairmont Hotel	Fujairah	Hotel	ERGA	2013	34	332
302	Binary Tower	Dubai	Offices	Clarke Samadhin	2013		
303	Distinction Tower	Dubai	Residential	ZASPAS	2013	4	667
304	Suleiman Habib Hospital	Dubai	Health Care	Arif & Bintook	2013	42	65
305	School for United Holdings	Dubai	Education	Consistent Engineering Consultants	2013		
306	Caliper Warehouse Extention, DLC	Dubai	Warehouse	Dynamic Consultants	2013		
307	G + 3 Residential Building, Umm Hurair	Dubai	Residential	Ian Banham and Associates	2013		
308	G+5 Residential Building, Umm Hurair	Dubai	Residential	Adnan Saffarini	2013	4	
309	DMA Proposed Warehouse	Dubai	Warehouse	Consistent Engineering Consultants	2013	2	
310	G + 2 School at Qusais	Dubai	Education	Safer Engg Consultants	2013	3	
311	Commodo of Military Works, 10093-C001	Dubai	Infrastructure	CMW	2013		
312	Al Haramain High Speed Rail Phase 1 Package 2	Saudi Arabia	Infrastructure	Dar Al Handasah	2013		
313	Hilton Riyadh Hotel & Residence	Saudi Arabia	Hotel	Omrania & Associates Architecture & Engineering Consultants	2013		1748
314	King Saud University- Girls Campus Project- Riyadh	Saudi Arabia	Education	Saud Consult	2013		
315	Abudhabi Future Schools Program- Phase 4- Package 3 (Al Yahar Aliyah)	Abu Dhabi	Education	KEO International	2013		
316	Al Silla Community Hospital	Abu Dhabi	Health Care	HDP Consultants	2013	27	82
317	Abudhabi Future Schools Program- Phase 4- Package 5 (Al Shuwab-Al Ain)	Abu Dhabi	Education	KEO International	2013		
318	Abudhabi Future Schools Program- Phase 4- Package 2 (Al Salem & Al Neima)	Abu Dhabi	Education	W S Atkins	2013		
319	TDC-Tawam Dialysis Centre- Al Ain	Abu Dhabi	Health Care	Stantec	2013	28	256
320	Zayed Military City, New Building in Armour School Camp	Abu Dhabi	Education	CMW	2013		
321	Ruwais Housing Complex Expansion phase III, Bachelor Flats- Package 3	Abu Dhabi	Residential	ADNOC	2013	60	
322	Abudhabi Future Schools Program- Phase 4- Package 3 (Al Yahar Aliyah)	Abu Dhabi	Education	KEO International	2013	113	558
323	Al Mafrag Hospital	Abu Dhabi	Health Care	Burthil	2013	8	380
324	Premier Inn Hotel	Abu Dhabi	Hotel	Dewan Architects & Consultants	2013	18	
325	IPIC Tower	Abu Dhabi	Mixed Use	W S Atkins	2013		
326	Iconic Green House	Abu Dhabi	Others	MZ Consultants	2013	14	21
327	Universal Hospital	Abu Dhabi	Health Care	Society Technical House	2013	4	
328	Al Mafrag Hospital, Annexure Building	Abu Dhabi	Health Care	Hill International	2013	6	84
329	Ayla Hotel, Al Ain	Abu Dhabi	Hotel	Shankland Cox	2013	15	450
330	Dubai Studio	Abu Dhabi	Studio	AECOM	2013	29	
331	Marsa Malaz Hotel at Pearl Qatar (P-352)	Qatar	Hotel	Arab Engineering Bureau	2013	65	630
332	QMA Tower- 2	Qatar	Offices	Arab Engineering Bureau	2013		
333	A.F. Palace (LPE 22 to 26) @Pearl Qatar	Qatar	Villa	Arab Engineering Bureau	2013		



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
334	Naufar Hospital	Qatar	Health Care	Stantec	2013	88	460
335	Sheikh Abdul Rahman Al Thani Villa	Qatar	Villa	ERGA	2013	12	120
336	CP/14-3 The Pearl Qatar Fire Station	Qatar	Offices	Engineering Consulting Group	2013	6	10
337	Hilton Hotel at Salata	Qatar	Hotel	ERGA	2013	9	375
338	VP Villa at Lusail/ Design & Build of Majlis at Lusail Villa	Qatar	Villa	EHAFC Consulting Engineers	2013	20	
339	GTC-007/12 Seef HQ Fit Out Project	Qatar	Offices	James & Cubit	2013		
340	Ali Al Fardan Palace	Qatar	Villa	Arab Engineering Bureau	2013		
341	Qatar Museum	Qatar	Museum	Arab Engineering Bureau	2013		
342	Mscherieb Heart of Doha	Qatar	Residential	Ramboll	2013	7	
343	Muscat Airport Development – MC2	Oman	Infrastructure	ADPI	2013	23	
344	3B + GR + 7P + 19 story office building on plot D-001-004	Dubai	Offices	ARCH Group	2014		
345	Rajmahal Theatre at Bollywood Parks	Dubai	Entertainment	Kling Consult	2014		
346	Aster Hospital	Dubai	Health Care	QHC Architects & Engineers	2014	19	146
347	Construction of Accommodation for Officers, warrant officers, Soldiers & Gym for Khalifa Bin Zayed 2nd bridge	Dubai	Residential	Al Torath Consulting	2014	19	243
348	Proposed Hospital Development Building (3B+G+6+Roof)	Dubai	Health Care	Arif & Bintook	2014	42	65
349	City Walk (Hotel 1)	Dubai	Hotel	WME Consultants	2014		410
350	R-1012 Hotel Mina Port Rashid	Dubai	Hotel	Dimensions	2014	3	212
351	R-1013 Al Murqabat	Dubai	Hotel	Dimensions	2014	5	210
352	EKFC New Cold Room Stores @ Al Rowaiyah	Dubai	Infrastructure	ARTEC Consultants	2014	6	20
353	Landmark project	Dubai	Offices	ARCH Group	2014		172
354	B+G+ 12+R Building, Wadi Al Safa	Dubai	Residential	Al Ajmi Engineering Consultants	2014	2	304
355	J490 – Emirates NBD PJSC @ Deira	Dubai	Offices	SPW	2014	2	29
356	Pearl Diving Pool	Dubai	Entertainment	Halcrow Consultants	2014	13	115
357	Burj Khalifa Level 125 and 148	Dubai	Mixed Use	WSP	2014		15
358	Medstar Surgical Day Center	Dubai	Health Care	Hosmac	2014	7	13
359	Mazaya Center Extension	Dubai	Shopping	ARTEC Consultants	2014	4	198
360	B+G+ 2P+9 Storey Beach Resort Hotel	Dubai	Hotel	QHC Architects & Engineers	2014	11	640
361	Mixed Used Tower, Sharjah	Sharjah	Mixed Use	QHC Architects & Engineers	2014	7	386
362	3B + G + M + R Commercial Building	Abu Dhabi	Offices	Golden Planners Consultants	2014		
363	Construction of Building & Store and Other Works for Artillery Corps at Camp no (141259)	Abu Dhabi	Offices	CMW	2014		
364	Abudhabi Future Schools Program- Phase 4- Package 1 (Al Jimi & Al Muwaiji)	Abu Dhabi	Education	W S Atkins	2014		
365	Al Rahba Hospital Renovation Emergency Department Expansion	Abu Dhabi	Health Care	EHAFC Consulting Engineers	2014		
366	Construction of Building for the Weapon Command of General Maintenance at Camp	Abu Dhabi	Offices	CMW	2014		
367	Construction of Building at Liwa Air Base	Abu Dhabi	Offices	CMW	2014		
368	Construction of Accommodation for National Service at Khawla Bint Al Azar	Abu Dhabi	Residential	CMW	2014		
369	Sheikh Khalifa Medical City, Dialysis Center	Abu Dhabi	Health Care	Leo A Daly	2014		
370	Arab Bank Renovation	Abu Dhabi	Offices	MIMAR Group	2014		

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
371	Construction of Building K3 (1st Phase)	Abu Dhabi	Offices	CMW	2014		
372	Zayed Military City / CMW-11041-C004	Abu Dhabi	Offices	CMW	2014		
373	PGC (Construction of Accommodation for Officers, Warrant Officers, Soldiers & Gym for Khalifa Bin Zayed 2nd Bridge Command / Tanks Battalion)	Abu Dhabi	Residential	AlTorath Consulting	2014	20	298
374	Abudhabi Future Schools Phase 4- Package-6-chinese school	Abu Dhabi	Education	W S Atkins	2014		
375	Chinese School	Abu Dhabi	Education	W S Atkins	2014	17	
376	Four Seasons Hotel	Abu Dhabi	Hotel	AECOM	2014		
377	Marina Mix 50 @ Lusail	Qatar	Mixed Use	Arab Engineering Bureau	2014	1	1342
378	Development of ISF Camp- Al Duhail	Qatar	Mixed Use	KEO International	2014	110	330
379	Handball Stadium (Multipurpose Sports Hall)	Qatar	Stadium	Hill International	2014	34	366
380	Intercontinental Hotel Extension	Qatar	Mixed Use	Dar Al Handasah	2014	45	
381	Sinyar Tower- 2B+G+52- Service Apartment	Qatar	Mixed Use	DIWAN	2014		1100
382	Al Thuraya Tower at Al Dafna	Qatar	Mixed Use	DIWAN	2014	11	1234
383	Burj Marina Corn 11	Qatar	Offices	GHD Global	2014	9	256
384	Marriott Rebranding	Qatar	Hotel	DIWAN	2014	3	
385	QIB The Gate	Qatar	Shopping	DISCO	2014		
386	Hilton Double Tree	Qatar	Hotel	DIWAN	2014	28	190
387	KPMG Project	Qatar	Offices	Associated Consulting Engineers	2014		
388	Grand Majlis Beach Villa	Qatar	Villa	Arab Engineering Bureau	2014		
389	Sheikh Tamim Beach Villa	Qatar	Villa	Design & Build	2014		
390	BVN Villa at Pearl Qatar	Qatar	Villa	UDC	2014		
391	Dubai Safari (Safari Village)	Dubai	Entertainment	AlTorath Consulting	2015	22	
392	New DM Building	Dubai	Offices	Adnan Saffarini	2015		
393	River Park RD&E - Structural Package	Dubai	Hotel	Dewan Architects & Consultants	2015		
394	Moorfields Hospital Eye Centre	Dubai	Health Care	Hosmac	2015		
395	Meeras Outlet Village	Dubai	Shopping	WSP	2015		
396	Maliha Hospital	Sharjah	Health Care	AE7	2015	16	85
397	Military Sec. School Sharjah	Sharjah	Education	CMW	2015	50	
398	Al Rayyan Complex, Sharjah	Sharjah	Residential	Halcrow Consultants	2015	78 26	6
399	Kaloti Refinery	Dubai	Gold Refinery	Ian Banham and Associates	2015	5	78
400	Kuwait International Airport	Kuwait	Infrastructure	Dar Al Handasah	2015	59	
401	JW Marriott Renovation	Kuwait	Hotel	-	2015		416
402	Emirates Hospital	Dubai	Health Care	Hosmac	2015	36	
403	Orthopedic Hospital	Dubai	Health Care	CV Tech Consulting Engineers	2015	15	180
404	Tiarra Hotel Extension	Dubai	Hotel	Dar Al Handasah	2015	15	200
405	Centro Rotana Hotel - Riyadh	Saudi Arabia	Hotel	EHAF Consulting Engineers	2015	15	200
406	Centro Rotana Hotel - Al Khobar	Saudi Arabia	Hotel	EHAF Consulting Engineers	2015	19	292



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
407	Construction of CICPA Camps at Shah	Abu Dhabi	Offices	Engineering Consulting Group	2015		
408	Ruwais Housing complex expansion phase 4 Design & Construction of District Cooling Plant	Abu Dhabi	Residential	ADNOC	2015	10	453
409	Construction of Science Building Section & Other Works CMW 13019	Abu Dhabi	Offices	CMW	2015		
410	Al Mamoura Academy	Abu Dhabi	Education	AECOM	2015	25	
411	National Rehabilitation Center	Abu Dhabi	Health Care	HDP Consultants	2015		
412	Safa Hypermarket LLC at Al Waha Mall-Alain UAE	Abu Dhabi	Shopping	Architectural & Engineering Consultants	2015		
413	Construction of Shah Accomodation Complex	Abu Dhabi	Residential	Engineering Consulting Group	2015		
414	Chailhoub Yas Mall @ Abu Dhabi	Abu Dhabi	Shopping	Bluehaus	2015		
415	Construction of Building in Camp 141276 in Zayed Military City	Abu Dhabi	Residential	CMW	2015		
416	Ferrari World Abu Dhabi Phase 2	Abu Dhabi	Entertainment	AECOM	2015	11	27
417	Construction of Different Facilities at Al Hamra CMW C000-9003	Abu Dhabi	Offices	CMW	2015		
418	Emirates Pearl Hotel	Abu Dhabi	Hotel	Arkan Architech Consultant	2015		230
419	Mall of the Emirates VIP Valet EN-3B	Abu Dhabi	Shopping	WSP	2015		
420	Construction of LE Boulevard, Al Saad Street, Doha	Qatar	Mixed Use	Arab Engineering Bureau	2015		450
421	Kenzo Shop at Lagoona Mall	Qatar	Shopping	Architectural & Planning Group	2015		
422	QNB SHMOUKH Tower	Qatar	Offices	Architectural & Planning Group	2015		
423	Physiotherapy & Gym for Al Emadi Clinic	Qatar	Health Care	Gulf Consulting Group	2015		
424	Majilis Ghanam Al Qubaisi Duhail, Qatar	Qatar	Villa	ERGA	2015	9	19
425	QATAR AIRWAYS SIMULATION CENTRE	Qatar	Offices	CEG	2015		
426	Al Khor Project	Qatar	Offices	Arab Engineering Bureau	2015		
427	QIB AL RAYYAN PROJECT	Qatar	Offices	Arab Engineering Bureau	2015		
428	West Bay Medical Centre	Qatar	Health Care	MZ & Partner	2015		
429	Oman Airport - MC 12	Oman	Infrastructure	Gafari Consultant	2015	100	
430	Oman Convention Centre Hotel 1	Oman	Expo 2020 Hall	W S Atkins	2015		536
431	Oman Convention Exhibition centre, Hotel-2	Oman	Hotel	W S Atkins	2015		445
432	3 S Facility by Zubai Group	Oman	Offices	Intersol Consultant	2015	4	
433	Al Salam Hospital	Bahrain	Health Care	Arif Sadeq Consultants	2015	36	200
434	AL Fardan Bike Showroom	Qatar	Showroom	Arab Engineering Bureau	2015		
435	Construction of New Secondary School at Ruwais	Abu Dhabi	Education	Architectural & Planning Group	2016		
436	Toyoto 3S Facilities- Wave Building	Abu Dhabi	Offices	Makan Consulting Engineers LLC	2016		
437	Al Meera NBCS @ Um Stal Ali	Qatar	Shopping	Arab Engineering Bureau	2016		
438	B+G+3P+19 BUSINESSRAY, PLOT NO-BB.B01.062 AT DUBAI	Dubai	Residential	DEVELOPMENT CONSULTING ENGINEERS	2016	2	520
439	CMW	Abu Dhabi	Defense / Security	CMW -14036	2016	20	121
440	CMW	Abu Dhabi	Defense / Security	CMW 14034	2016	0	180
441	Oman Convention Centre, Package 4	Oman	Convention Center	W S Atkins	2016	0	537
442	Centro Rotana Hotel Alkhobar	Abu Dhabi	Hotel	Ehab	2016	34	292
443	M-157 / Al Salam Hospital	Bahrain	Health Care	Aref Sadeq Design Consultants	2016	35	150

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
444	Orthopedic Specialty and Specialty Clinics Center, Dubai Health Care City	Dubai	Health Care	CV Tech consulting engineers	2016	19	0
445	ISF Camp	Qatar	Mixed Used	AEB / KEO	2016	138	5920
446	Green Community	Dubai	Villa	Dewan Architects & Consultants	2016	351	3006
447	American Academy School	Qatar	Education	Sketch Engineering	2016	9	123
448	Mahawi 2	Abu Dhabi	Defense / Security	CMW	2016	8	350
449	ISF CPC05 - Traffic Control Center	Qatar	Traffic Control Building	AEB / KEO	2016	31	117
450	Oscar Barari Mall	Abu Dhabi	Mall	WeatherTech Electromechanical Cont. LLC	2016	5	0
451	Ortus Hospital, Al Garhoud Dubai	Dubai	Health Care	Hosmac	2016	2	0
452	Nakheel Mall, Palm Jumeirah, Dubai	Dubai	Mall	WME Consultants	2016	0	372
453	Motion Gate, Meraas Outlet Village	Dubai	Entertainment	WSP	2016	4	5
454	Emirates Hospital	Dubai	Health Care	Arif & Bintook, Hosmac	2016	31	0
455	Dashen Bank, Ethiopia	Dubai	Offices	Al Futtaim	2016	29	0
456	AJ15-0921(ML)	Dubai	Logistics	Dynamic Consultants	2016	0	98
457	Aspire Academy Expansion at Aspire Zone	Qatar	Education	KEO International	2016	71	473
458	Oman Convention Centre, Package 4- Hotel 1- Marriott	Oman	Convention Center	W S Atkins	2016	0	156
459	Le Royal Meridien Hotel	Dubai	Hotel		2016	0	319
460	Fort Bldgs & Infrastructure Package 2 E&M	Qatar	New Port	AEB / AECOM	2016	0	69
461	Aspire Academy Expansion at Aspire Zone - E&M	Qatar	Education	KEO International	2016	22	92
462	Dar Al Kamal Hospital	Dubai	Health Care	Hosmac	2016	19	50
463	Port Buildings & Infrastructure Package 2 - NFP0064 - E&M	Qatar	New Port	AEB / AECOM	2016	40	177
464	Port Buildings & Infrastructure Package 2 - NFP0064 - E&M	Qatar	New Port	AEB / AECOM	2016	10	177
465	Kempinski Zengo Restaurant	Qatar	Restaurant	AEB	2016	4	0
466	Construction, Completion, & Maintenance of Aspire Academy	Qatar	Education	KEO International	2016	23	0
467	Dubai World Trade Center - CP 02	Dubai	Office	WSP	2016	34	594
468	QNB Al Saad-M-MRS 1	Qatar	Offices	APG	2016	0	23
469	Boulevard Mall	Qatar	Mall	DARA	2016	67	0
470	VOK Cinema at Doha Festival City Qatar	Qatar	Entertainment	APG	2016	22	14
471	CMW 13025	Abu Dhabi	Military force building	CMW	2016	0	119
472	CMW -13016-C002	Abu Dhabi	Military force building	CMW	2016	6	10
473	Taiba Hospital	Dubai	Health Care	Jaber Jamal Engineering	2016	0	109
474	Doha Oasis Mixed Use Development, Doha (DOMUD) - Qatar	Qatar	Mall & Hotel	AECOM	2016	151	209
475	Aspire Academy	Qatar	Education	KEO International	2016	16	28
476	Maria 3 & Al Jaddaf Residential Towers	Abu Dhabi	Residential	Al Waha Engineering Consultant	2016	1	159
477	CMW 13025	Abu Dhabi	Military force building	CMW	2016	19	119
478	Al Meera Convenience Store at Rowdat Aba El Heran PJ29	Qatar	Super Market	Arab Engineering Bureau	2016	3	55
479	Burjeel Day Care Center	Abu Dhabi	School	STH	2016	16	27
480	Burjeel Speciality Hospital, Sharjah	Dubai	Health Care	Al Rowadh Al Tasmeem	2016	18	153



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
481	Downtown Jabel Ali	Dubai	Mixed Use	Bel Yoahah	2016	0	311
482	Energy Center at Khalifa Stadium	Qatar	Entertainment	Dar Al Handasah	2016	8	54
483	Premier Inn Hotel	Qatar	Hotel	Arab Engineering Bureau	2016	5	0
484	Residential Tower for Mr. Mohamed Salem Al Menhali	Abu Dhabi	Residential	Pioneer Engineering Consultant	2016	2	575
485	Tiara Hotel	Dubai	Hotel	ECO	2016	9	547
486	Providence Tower @ Juffair	Dubai	Residential	Areh	2016	2	245
487	Al Naqi Center, Fox Hills Lusail	Qatar	Mixed Use	Dimension Engineering Consultant	2016	5	35
488	Al Andalus School	Qatar	Education	Dimension Engineering Consultant	2016	107	590
489	OIA G+5 Residential Development	Dubai	Residential	Ian Banham and Associates	2016	8	901
490	Wafi Hotel Complex & Mall Expansion	Dubai	Hotel	The Hidi Group	2016	169	1331
491	Nozul	Qatar	Mixed Use	NA	2016	10	0
492	Address Hotel	Dubai	Hotel	WME Consultants	2016	0	1004
493	ISF-SPS-02	Qatar	Mixed Use	DAR AL HANDASAH	2016	42	0
494	Doha Oasis Mixed Use Development, Doha (DOMUD) - Qatar	Qatar	Mall & Hotel	AECOM	2017	8	232
495	GV-11, SB+Services+concourse+8 story commercial DIFC	Dubai	Office	Ian Banham and Associates	2016	0	151
496	OIA G+5 residential development, motor city, Dubai	Dubai	Residential	Ian Banham and Associates	2016	8	0
497	Staff accommodation, Hatta (PJ-10084) - Plot # 8913043	Dubai	Residential	Al Burj Consultant	2016	4	566
498	Al Muhaidb BQ	Saudi Arabia	Office	H.A.K Archt & Eng'g Consultant	2016	6	356
499	CMW 14109 Diafa Air Base	Abu Dhabi	Defense / Security	CMW	2016	11	0
500	Al Mamzar 147 Sharjah	Abu Dhabi	Residential	Sharjah Engineering Consultant	2016	0	846
501	Badir Phase -1 Im Muhaisnah - 1st, Dubai	Dubai	Residential	LACASA Architect & Engineering Consultants	2016	14	0
502	Wafi Hotel Complex & Mall Expansion	Dubai	Hotel	The Hidi Group	2017	0	40
503	Le Mirage Hotel	Qatar	Hotel	Arab Engineering Bureau	2016	11	0
504	497/15-M Club Villas the Palm Jumeirah, Dubai	Dubai	Residential	ACE	2017	0	83
505	Ministry of Justice and Federal Courts Complex, Abu Dhabi	Abu Dhabi	Defense / Security	DEC & Hills	2016	67	0
506	ISF-TCC-05	Qatar	Mixed Use	KEO International	2016	4	0
507	Perfita Garden	Qatar	Residential	James Cubit and Partners	2016	0	658
508	Al Jaddaf	Abu Dhabi	Residential	Kling Consult	2017	1	160
509	B+G+10+R Hotel Bldg @ Dubai Biotech & Research Park	Dubai	Hotel	ARC	2017	1	377
510	Al Salaam Compound	Saudi Arabia	Others	Arabtech Jardaneh	2016	3	0
511	CMW-15086 C001	Abu Dhabi	Defense / Security	CMW	2017	10	74
512	GOLDEN SANDS LAUNDRY AT DUBAI INVESTMENT PARK, DUBAI ON PLOT # 598- 1120	Dubai	Others	Arengo	2017	6	43
513	Al Waab & Mshereib Offices	Qatar	Others	Design Build	2017	7	0
514	MIXED USE COMPLEX AT SHATTI AL QURUM-WATER FRONT SITE	Oman	Mixed Use	SEMAC	2016	8	0
515	Labour Accommodation at DIP	Abu Dhabi	Residential	Orian Engineering Consultant	2017	1	202
516	CMW 15124	Abu Dhabi	Defense / Security	CMW	2017	8	8
517	CMW 13093 C001	Abu Dhabi	Defense / Security	CMW	2017	8	208

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
518	Specialist Rehabilitation Hospital-(SRH)	Abu Dhabi	Health Care	Hoare leo	2017	31	367
519	LA MER WATERPARK	Dubai	Entertainment	Dynamic Consultants	2017	14	67
520	Kindergarten @ Altawwar Second	Dubai	Others	Althurath Engineering	2017	3	0
521	0010 Deyaar - Barsha Hotel by Deyaar Devt. PJSC	Dubai	Hotel	Meinhart consultants	2017	0	137
522	G+ 2 Staff Accomodation	Dubai	Residential	Emirates Engineer Consulting Engineering LLC	2017	0	339
523	MCC Seeb	Oman	Mixed Use	Nil	2017	4	0
524	VoxCinemas @ Nakheel Mall	Dubai	Entertainment	Architecture & Planning Group	2017	22	0
525	Sheikh Abdul Aziz Villa	Qatar	Villa	NA	2017	3	0
526	Vendom Mall	Qatar	Mixed Use	MZ & Partener	2017	30	110
527	GALLARIES LAFAYETTE	Qatar	Entertainment	ERGA	2017	57	71
528	Lusial Office Tower	Qatar	Office	EHAf Consulting Engineers	2017	12	206
529	HVAC refurbishment work @ new lab building in DCL	Dubai	Others	Dubai Municipality	2017	6	0
530	Lubna Villa @ Al Khawaneej, Dubai	Dubai	Villa	ECG	2017	2	62
531	ISF-CPC-07b	Qatar	Mixed Use	KEO International	2017	63	1849
532	OFFICE BUILDING KHALIFA STADIUM	Qatar	Sports	DAR AL HANDASAH	2017	16	1
533	Doha Oasis Hotel Tower	Qatar	Mixed Use	AECOM	2017	34	241
534	Specialized Rehabilitation Hospital Project, Abudhabi	Abu Dhabi	Health Care	HOARE LEA	2017	31	0
535	HSBC Headquarters	Dubai	Offices	Conin Incorporated Consultants	2017	4	0
536	Almouj Wave Plaza Hotel	Oman	Hotel	Parsons	2017	4	20
537	Development of Internal Security Forces (ISF) Camp at AlDuhail	Qatar	Mixed Use	DAR AL HANDASAH	2017	3	61
538	Al Muhaidb BQ	Saudi Arabia	Office	HAK Arch't & Eng'g Consultant	2017	0	240
539	Private Villa (92,93,94), Al Gurm, Abu Dhabi	Abu Dhabi	Villa	MZ Architect	2017	19	93
540	JUMEIRAH VILLAGE, AL KHALIL AVENUE AND HOTEL, DWS 145192	Dubai	Residential	DAR AL HANDASAH	2017	66	640
541	G+20 SINGLE TOWER, G+20 TWIN TOWER LEFT SIDE, G+20 TWIN TOWER RIGHT SIDE	Dubai	Residential	Al Boniyan Consulting Engineers	2017	0	1057
542	563/17-C P076 SECONDARY TECHNICAL SCHOOL (STS) BANYAS NORTH	Abu Dhabi	Education	Brite Design & Engineering Consultancy	2017	30	308
543	Dubai Trade Centre District Phase 1A6-Dubai (DTCD)	Dubai	Mixed Use	WSP	2017	46	685
544	Tiara Hotel	Dubai	Hotel	ECC	2017	30	12
545	Al Rayyan Stadium, Energy Centre	Qatar	Sports	AECOM	2017	5	50
546	Proposed Triloggy Logistic Mega Distribution Center	Abu Dhabi	Others	DCM International	2017	41	26
547	G+P+4 Residential Building (Eaton Place), JVC	Dubai	Residential	Al Wasl Al Jadeed Consultants	2017	2	0
548	2B+G+M+10 KHALIDIYA HOTEL ON PLOT NO. 1240578 AT MURAOQABAT	Dubai	Hotel	Architecture Corner Engineering Consultants	2018	14	428
549	IMPERIAL AVENUE @ DOWNTOWN	Dubai	Mixed Use	ARCH Group	2018	11	2495
550	B+G+8F (Gateway)	Dubai	Residential	National Engineering Bureau	2018	2	
551	RBW3-C4 AT AL RAHA	Abu Dhabi	Residential	MZ Architects	2018	1	120
552	Commercial & Res. Building "G+4P+ 17+R"	Dubai	Mixed Use	Consistent Engineering Consultants	2018	2	277
553	Ramla Tower	Saudi Arabia	Hotel	ERGA	2018	8	946
554	Le mirage Downtown	Qatar	Residential	Arab Engineering Bureau	2018	3	



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
555	Al Rayyan Stadium part 3	Qatar	Stadium	AECOM	2018	21	
556	THE MUSEUM OF FUTURE	Dubai	Museum	BAM Higgs & Hills LLC	2018	59	132
557	RBW7-20	Abu Dhabi	Residential	MZ Architects	2018	1	243
558	Vida Hotel, Dubai Creek	Dubai	Hotel	Godwin Austen Johnson Architects	2018	26	444
559	Ibn Battuta Mall Expansion - Avani Hotel	Dubai	Hotel	DAR AL HANDASAH	2018	8	518
560	Dolmen City Tower, A&B Clifton	Pakistan	Mixed Use	Fahim Ninja Disouza	2018	140	
561	PROTECTIVE SYSTEM BUILDING G+4+R@ MUHAISANAH	Dubai	Mixed Use	Bel Yoahah	2018	11	141
562	KIA Showroom and Office Building at Al Quoz - 1	Dubai	Showroom	Design Centre Architects & Engineers Consultants	2018	14	
563	Royal Atlantis staff accommodation in Plot No. JVC 17 TCP 0121 & 013 At Jumeira Village	Dubai	Residential	LACASA Architect & Engineering Consultants	2018	15	
564	Dragon City Hotel	Dubai	Hotel	DAR AL HANDASAH	2018	5	353
565	LUXURY HOTEL @ JADAF	Dubai	Hotel	HIDI RAE Consulting Engineers Inc	2018	9	1109
566	AL MAMZAR BUILDING	Abu Dhabi	Residential	Sharjah Engineering Consultant	2018	2	87
567	CMW 17040- C001	Abu Dhabi	Hotel	CMW	2018	15	121
568	Askari Tower, Lahore	Pakistan	Mixed Use	SEM Engineering	2018	51	
569	Vox Cinemas @ Al Jimmi mall- Al Ain	Abu Dhabi	Entertainment	Architecture & Planning Group	2018	14	
570	Royal Atlantis	Dubai	Hotel	WSP	2018		4000
571	ISF -CPC-07a	Qatar	Infrastructure	Arab Engineering Bureau	2018	10	
572	ISF CPC 07B FCU	Qatar	Infrastructure	KEO International	2018		107
573	Khazna Data Center POD 4, 5 & 6 in Abu Dhabi	Abu Dhabi	Infrastructure	WSP	2018	7	102
574	Khazna Data Center POD 4, 5 & 6 in Dubai	Abu Dhabi	Infrastructure	WSP	2018	7	102
575	ISF-CPC-07A-Substation	Qatar	Offices	KEO International	2018	9	
576	Doha Oasis Cinema	Qatar	Entertainment	AECOM	2018	34	
577	Valiant Clinic Refurbishment	Dubai	Health Care	HOLFORDS CONSULTANTS	2018	6	
578	Deira Waterfront Plot 13	Dubai	Mixed Use	AE7	2018	16	
579	Ruweis Housing complex Phase IV- Central park & Villa Community	Abu Dhabi	Residential	AMAR Goldendesign LLC	2018	4	
580	RIU Hotel	Dubai	Hotel	DAR AL HANDASAH	2018	27	1176
581	Doha Oasis AHUs	Qatar	Shopping	AECOM	2018	9	190
582	Mobil Jamuna	Bangladesh	Mixed Use	---	2018	2	139
583	Cityland Mall Development on Plot No. 6468108 @ Wadi Al Safa	Dubai	Shopping	MBA Anarchistic	2018	80	189
584	Musherieb Properties Phase -4	Qatar	Infrastructure	CEG	2018	11	99
585	Hotel Staff Accommodation G+ 4 Al Warsan	Dubai	Residential	Consistent Engineering Consultants	2018	61	
586	Vendom Hotel-FCUs	Qatar	Infrastructure	Salfio consultant	2018		281
587	18K Agility Global Logistics Warehouse	Dubai	Warehouse	---	2018	31	
588	Dubai Creek Harbour -Harbour Gate project P3080	Abu Dhabi	Residential	Group Consultant	2018		1743
589	Proposed B+G+2P+15+Gym Commercial & Residential building	Dubai	Mixed Use	FUTURE ART ENGINEERING	2018	1	316
590	G+2F+R+UR Residential Commercial Building_UAE (TOSHIBA)	Dubai	Mixed Use	National Engineering Bureau	2018	6	
591	GOLD CREST MALL	Pakistan	Shopping	SEM Engineering	2018	42	90

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
592	Khawaanej Community Mall	Dubai	Shopping	Engineering Office	2018	14	24
593	The Pulse - Mixed use Project - Parcel 4	Dubai	Mixed Use	W S Atkins	2018	5	399
594	The Pulse - Mixed use Project - Parcel 1	Dubai	Mixed Use	W S Atkins	2018	12	498
595	Alilah Salalah Resort	Oman	Hotel	Ibrahijaidah	2019	19	
596	SABB HQ, Riyadh	Saudi Arabia	Offices	Arcadis	2019		1023
597	SABB Headquarters	Saudi Arabia	Offices	Arcadis	2019	16	
598	Vendome Hotel-Ahus	Qatar	Hotel	Salfo	2019	39	142
599	ISF CPC-30J	Qatar	Mixed Use	KEO	2019		171
600	Al Baker Tower	Qatar	Mixed Use	KEO	2019	23	
601	QIMC Tower	Qatar	Mixed Use	Arab Engineering Bureau (AEB)	2019	5	1436
602	MARSA ARABIA- FIVE STAR HOTEL & RESIDENCE	Qatar	Mixed Use	DAR	2019	96	1891
603	THE PEARL SHOWROOM	Qatar	Mixed Use	James & Cubit	2019	2	3
604	KATARA TOWER-FCUs	Qatar	Hotel	Dar Al Handasah	2019	56	885
605	Family Entertainment & Snow Park at Vendome Mall	Qatar	Entertainment	Meinhardt	2019	18	
606	Oryx Tower	Qatar	Hotel	KEO	2019		1058
607	Lusail Palace Package-2	Qatar	Others	GHD	2019		102
608	UNITED SCHOOL INTERNATIONAL @ PEARL QATAR (B+G+2)	Qatar	Education	Arab Engineering Bureau (AEB)	2019	15	270
609	Lusail Palace Package- 1-Phase-2&3	Qatar	Others	GHD	2019		187
610	Musallah Shopping Mall	Abu Dhabi	Shopping	Arcadis Consulting Middle East Ltd.	2019	3	
611	The Pulse -Mixed Use Project-Parcel 2	Abu Dhabi	Residential	WS Atkins & Partners Overseas	2019	9	321
612	Sheikha Fatima Bint Mubarak Park	Abu Dhabi	Infrastructure	Turath Consultant	2019	6	
613	The Pulse-Mixed Use Project-Parcel 12	Abu Dhabi	Residential	WS Atkins & Partners Overseas	2019	9	331
614	Rowe La Mer, Dubai	Abu Dhabi	Others	Arch Group Consultant	2019		514
615	Lulu Hypermarket, Festival Plaza	Abu Dhabi	Shopping	VENTURE CONSULTANT LLC	2019	2	65
616	Meadows Retail Center Development for Emaar Malls	Abu Dhabi	Residential	CSA Consulting Engineers	2019	4	29
617	Dubai Creek Harbour - Harbour Gate Project	Abu Dhabi	Others	SSH Design International Engineering Consultants	2019		216
618	Residential Building on Plot No. RBW7-C26 Al Raha	Abu Dhabi	Residential	Bead Architects & Engineers	2019	1	363
619	AJ 420 - ACE BASE EXPANSION	Abu Dhabi	Others	Aurecon Australia	2019	12	
620	TARMEEM ORTHO & SPINE CENTER	Abu Dhabi	Health Care	URBANSIM PLANNING ARCHITECTURE	2019	4	
621	AL MIZHAR Secondary School	Abu Dhabi	Education	Mimar Emirates Engineering Consultants	2019	3	
622	SAIL TOWER, RBW/8 -C20, Al Raha	Abu Dhabi	Residential	MZ ARCHITECTS	2019	3	664
623	Traditional Souq	Abu Dhabi	Mixed Use	Ian Barnham & Associates Consulting Engineers	2019	76	238
624	Fish Production Farm	Abu Dhabi	Others	AECOM	2019	6	
625	MEDIA ZONE DEVELOPMENT - PLOT C40 & C41-AHU	Abu Dhabi	Entertainment	AECOM	2019	37	436
626	SKYDIVE DUBAI HQ	Abu Dhabi	Others	ENGINEERING OFFICE THE PRIVATE OFFICE	2019	7	52
627	Aerospace Supply Chain Phase 3	Abu Dhabi	Others	Global Engineering Consultants	2019	13	8
628	The Pulse - Mixed use Project - Parcel 10	Abu Dhabi	Mixed Use	WS Atkins & Partners Overseas	2019	5	337



## PRESTIGIOUS PROJECTS INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
629	Al Mowzar 95A (G+5P+HC+1 SERV.+32 TYPICAL + ROOF) @ Sharjah	Abu Dhabi	Residential	Sharjah Engineering Consultant	2019	23	
630	AJ-416 LABORATORY Covid-19 Detection Lab	Abu Dhabi	Others	Amara contracting and steel building-MEP- UAE	2019	2	
631	Marassi Galleria Mall	Bahrain	Shopping Mall	Pace Architecture/Parsons	2019	100	884
632	The Grand, Dubai Creek Harbour	Dubai	Others	WS Atkins	2019		1696
633	The Address Harbour Point, Dubai Creek	Dubai	Others	Keo International	2019	28	2027
634	Roxy Cinema at Al Khawaneej Walk	Dubai	Entertainment	Engineering Office	2019	11	
635	B+G+P+9 Res/Com Building at plot no 6318843 Dubai Hills	Dubai	Others	Model Engineering Consultants	2019		271
636	The Village Project - Al Gassar	Qatar	QDC	Mixed Use	2019	10	1
637	ISF CPC-07A	Qatar	Infrastructure	Arab Engineering Bureau	2019		231
638	Skyway Innovation Centre	Dubai	Mixed Use	International Engineering Consultant	2019	5	
639	Proposed B+G+14F Luxury Hotel Apartments & Service Bloc	Dubai	Hotel	Hidi Rae Consulting Engineers	2019	9	
640	Delhi Private School	Dubai		Home of Architecture for Engineering Consultants	2019	4	
641	G+ 19 Building, Al Barsha	Dubai	Education	Be-Yooah Architectural & Engineering Consultants	2019	2	373
642	LATIFA HOSPITAL, AL JADAF	Dubai	Residential	Adwar Engineering Consultants	2019	54	33
643	EKFC DUBAI SOUTH	Dubai	Others	Gulf Engineering & Consultants (GEC)	2019	7	
644	E-Fulfillment Centre at E2DUBAI	Dubai	Others	Al Wasl	2019	3	
645	COLLECTIVE 2.0, PARK HEIGHTS	Dubai	Others	BHNS Engineering Consultants	2019	5	923
646	Golf Suit DHE	Dubai	Residential	Khatib & Alami	2019	2	596
647	COLLECTIVE 01, Residential Tower at Plot (20.0004)	Dubai	Residential	BHNS Engineering Consultants	2019	6	845
648	VERA RESIDENTIAL APARTMENTS B+G+3P+25+ROOF	Dubai	Residential	Engineer Consortium Consulting (ECC)	2019	2	860
649	Fujairah Police General	Dubai	Residential	Al Burj Engineering Consultants	2019	36	14
650	GYM SPA AND POOL BUILDING	Dubai	Defense / Security	Engineering Office	2019	4	66
651	Hotel Staff Accommodation on Plot No. 811 - 1445, Al Warsan 3, Dubai	Dubai	Residential	AWAJ / CEC	2019	26	
652	Nakheel Mall Waitrose	Dubai	Residential	AlBwardy Engineering Enterprises	2019	14	18
653	Emirates Printing Press	Dubai	Shopping	Green Concept Engineering Consultants	2019	3	8
654	(P0029 G+8 - 334-7287) & (P0030 G+8 -334-7338)	Dubai	Office	Al Ajmi Engineering Consultant	2019	5	
655	CE LA VI at SKYVIEW TOWERS	Dubai	Residential	Norr Group Consultants International Ltd.	2019	1	26
656	CMW -18057 C003, C002 & C004	Abu Dhabi	Restaurant	CMW	2020	136	
657	Qaryat Al Hidd Development	Abu Dhabi	Defense / Security	Khatib & Alami	2020		2067
658	Waterfront Towers, Sector W32, Plot no. C2	Abu Dhabi	Residential	Golden Planners Consultants	2020	24	1075
659	YAS ACRES	Abu Dhabi	Mixed Use	AECOM	2020	10	
660	PROPOSED G+1 +R SHOPPING CENTER	Abu Dhabi	Shopping Mall	MAZ Consultants Architects & Engineers	2020	13	
661	AJ 426-Large Aircraft Maintenance Hanger	Abu Dhabi	Defense / Security	Stanley Consultants	2020	12	17
662	Residential Building Plot 40 Sector RBW2	Abu Dhabi	Residential	MZ ARCHITECTS	2020	2	425
663	Abu Dhabi Future Schools Program ( Phase 9 ), Madinat Zayed	Abu Dhabi	Others	NEB Engineering Consultancy Offices	2020	31	9
664	Abu Dhabi Future Schools Program ( Phase 9 ), Ghayathi	Abu Dhabi	Others	NEB Engineering Consultancy Offices	2020	31	9
665	REVA DAMAC RESIDENTIAL, BUSINESS BAY	Dubai	Residential	ECC	2020	2	843

# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
666	WARSAN ADDITIONAL EXHAUST UNITS	Dubai	Residential	---	2020	12	
667	Arabian Explosives	Dubai	Others	Jacobs	2020	11	
668	Burj Al Arab Refurbishment - AHUs	Dubai	Others	Black & White Engineering	2020	14	
669	ROYAL GRAMMAR SCHOOL GUILDFORD	Dubai	Others	Clarke Samadin	2020	31	
670	Eleve® Restaurant	Dubai	Mixed Use	Engineering Office	2020	5	
671	G+3P+15 Floors, Residential Building Plot No. JVC11COMPH014 at Jumeirah Village Circle	Dubai	Residential	John R. Harris	2020	2	315
672	BELGRAVIA-3 G+P+4 Residential Building@ JVC	Dubai	Others	Clarke Samadin	2020	4	
673	Gym, Pool & SPA	Dubai	Residential	Engineering Office	2020	20	30
674	G+1 Automotive Spare Parts Logistics for JLR on Plot No. S50906.	Dubai	Others	Image Engineering Consultants	2020	6	29
675	Creek Vistas	Dubai	Residential	PNC Architects	2020	12	
676	Armed Forces Officers Club & Hotel, Abu Dhabi	Dubai	Hotel	Clarke Samadin	2020	2	21
677	Upgradation of HVAC Works at HH Majlis at Zabeel 2	Dubai	Residential	Engineering Office	2020	17	
678	The Address Harbour Point @ Dubai Creek	Dubai	Others	KEO International	2020	12	322
679	Rashid Hospital, Trauma Centre	Dubai	Others	Ian Banham & Associates Consulting Engineers	2020	8	
680	Cloning Center	Dubai	Hospital	E11 ENGINEERING CONSULTANCY	2020	1	
681	MILLENNIUM BINGHATTI RESIDENCES	Dubai	Residential	Adnan Saffarini	2020	2	401
682	G+3 Gold Factory Building @ Jabel Ali Industrial First	Dubai	Residential	Bel Yoahah Architectural	2020	1	109
683	PROPOSED G+4 LABOUR ACCOMMODATION	Dubai	Residential	---	2020	5	
684	Binghatti Gateway (B+G+M+2P+14TYP+R floors) @ Al Jaddaf	Dubai	Residential	Silver Stone Engineering Consultant	2020	2	274
685	G+P+3 RESIDENTIAL/COMMERCIAL BUILDING 598-1354 DIFC	Dubai	Others	---	2020	4	231
686	PROPOSED G+1 UNION COOPERATIVE ON PLOT NO. 4168148 NADD AL HAMAR	Dubai	Shopping Mall	DAR AL OMRAN	2020	68	
687	PREMIER INN HOTEL, BARSHA HEIGHTS	Dubai	Hotel	CVTEC CONSULTING ENGINEERS	2020	4	341
688	Dubai London Clinic & Speciality Hospital Building	Dubai	Health Care	ARF & BINTOAK CONSULTING ARCHITECTS & ENGINEER	2020	17	119
689	Luxury Mixed Used Development-Marina Mix-12	Qatar	Mixed Use	AEB	2020	35	1770
690	Katara Tower-AHU-Lot-04	Qatar	Mixed Use	Dar Al Handasah	2020	20	40
691	ISF CPC-09a	Qatar	Others	DAR	2020		132
692	MARRIOTT HOTEL MEP WORKS	Qatar	Hotel	DAR	2020	34	668
693	ISF SPORTS FACILITY	Qatar	Sports	DAR	2020	12	
694	Oryx Tower	Qatar	Hotel	KEO	2020	30	
695	Marina Com-18-Fit-out works	Qatar	Hotel	EHAF	2020		473
696	Commercial Boulevard-AHU/FCU-LOT-3,4,5/Realm Cooling	Qatar	Mixed Use	Dorsch	2020	90	2185
697	Mixed Used Development-FCU	Qatar	Hotel	AEB	2020		701
698	Masraf Al Rayyan Head Office	Qatar	Mixed Use	AEB	2020	16	254
699	Ras Laffan Development Shell Qatar	Qatar	Mixed Use	GHD	2020	1	226
700	Place Vendome-Court Yard	Qatar	Mixed Use	Salfo	2020	52	
701	Vendome Hotel-H2	Qatar	Catering	Salfo	2020	16	7
702	Qetaifan Island North Development-Package-05-Hotel	Qatar	Hotel	AEB	2020		674



# PRESTIGIOUS PROJECTS

## INSTALLATION REFERENCE LIST

S. No	Project	Territory	Application	Consultant	Year	AHUs	FCUs
703	PSSD Doha Oasis	Qatar	Hotel	AECOM	2020		282
704	French Toast	Saudi Arabia	Hotel	BLUEHAUS ENGINEERING	2020	1	
705	Ramla Tower Extension Project	Saudi Arabia	Hotel	Erga	2020	7	86
706	Jones/Tris/Brute Restaurants	Saudi Arabia	Hotel	Erga	2020		
707	SABB Headquarters	Saudi Arabia	Offices	Arcadis	2020	6	81
708	Jeddah Railway	Saudi Arabia	Mixed Use	Dar	2020		4
709	ZUBAIR VILLA JOB	Oman	Villa	SSH	2020	3	
710	CHLORINE STORAGE FACILITY	Oman	Others	DESIGN UNIT	2020	1	
711	Matalan at Mall of Oman	Oman	Hotel	SEMAC	2020	1	12
712	Cafeteria & Wards at Khoula Hospital	Oman		—	2020		
713	Hatta Hospital	Dubai	Others	ARC International Engineering Consultants	2020	4	35
714	Dubai Canal Residences	Dubai	Residential	IBA - IAN BANHAM & ASSOCIATES CONSULTING ENGINEERS	2021	3	315
715	Proposed (2B+GrM+3) Shop & Resi. Flat Building at Lusail	Qatar	Residential	Design Build	2021	2	212
716	Holiday Inn Hotel & Suites at Science Park	Dubai	Hotel	KHATIB & ALAMI	2021	12	455
717	Youth And Sports Building @ Zayed Sports City	Abu Dhabi	Entertainment	N/A (Refurbishment Job)	2021	20	25
718	HHS Rashid Bin Mohammed Mosque	Dubai	Mosque	Green Concept Engineering Consultants	2021	11	19
719	Harvey Nicolas, MOE	Dubai	Shopping	Seed Consultant	2021	4	
720	MEDORE Tower, JLT, Dubai	Dubai	Residential	AGP ARCHITECTURE & PLANNING GROUP	2021		51
721	VOX CINEMAS AT MALL OF OMAN	Oman	Entertainment	Trust Engineering Consultant	2021	10	59
722	Qetaifan Island North Development- Package-05- Hotel	Qatar	Hotel	Atkins	2021	53	677
723	McCaffertys Rest Bar at Circle Mall	Dubai	Restaurant	JAK Consulting Engineers	2021	48	1223
724	Commercial Boulevard	Qatar	Mixed Use	Dorch Qatar	2021	90	2340
725	MAGIC PLANET AT MALL OF OMAN	Oman	Entertainment	Trust Engineering Consultant	2021	3	
726	ST Regis Five Star Beach Hotel & Branded Residence	Oman	Hotel	Ibrahim Jaidah	2021	48	1223
727	Katara Hills Boutique Hotel N219- PKG02-Main Works	Qatar	Hotel	KEO	2021	13	270
728	JUMAN 2 APARTMENT	Oman	Residential	SSH	2021	4	600
729	Cleveland Clinic	Abu Dhabi	Healthcare	SSH/Leo Adaily	2021	18	92
730	DUHAIL STADIUM	Qatar	Stadium	CEG	2021	41	35
731	Hyatt Place and Hyatt House	Saudi Arabia	Hotel	Norkun Intakes	2021	15	
732	Dr. Sulaiman Habib	Dubai	Healthcare	N/A	2021	8	155
733	QIMC Tower	Qatar	Mixed Use	Arab Engineering Bureau (AEB)	2021	25	1500
734	Nova Cinema at Vendome	Qatar	Entertainment	Meinhardt	2021	28	
735	Desert Retreat, Ras Abu Rouq	Qatar	Hotel	Arab Engineering Bureau (AEB)	2021	13	

## ECOLOGY UNIT REFERENCE PROJECTS

### KITCHEN EXTRACT SYSTEMS

S. No	Project	Consultant / Client Name	Ecology Unit Qty
1	Royal Atlantis Staff Accommodation	Lacasa Architects & Engineering Consultants	1
2	AMESCO TOWER	NEB-National Engineering Bureau	1
3	Tiara Hotel, Palm Jumeirah	Engineering Consortium	12
4	Sharjah Cooperative Society	QHC Architects & Engineers	1
5	P085 / R1090 Jumeirah Plot D Development	NEB-National Engineering Bureau	1
6	SISD-Swiss International Scientific School Dubai	WME Consultants	2
7	EKFC Emirates Flight Catering	GEO-Global Engineering Office	7
8	Jumeirah Gate @ JBR	WSP Group	8
9	Emirates Engineering	ADPI	1
10	Kingdom of Sheba Development Phase 1	Associated Consulting Engineering	1
11	Hub Zero (City Walk)	Meraas	1
12	Mansoura Hotel	AEB Consultant-DCO-QTR	1
13	MARSA ARABIA- FIVE STAR HOTEL & RESIDENCE	Dar Al-handasah Shair & Partners	9
14	LEOPOLDS OF LONDON	GREEN CONCEPT ENGINEERING CONSULTANTS	1
15	NOVA CINEMAS	COWI	1
16	Deira Water Front, Plot 03	Ae7	4
17	Movenpick Hotel, Riyadh	Consolidated Consultants	2
18	Sirocco Restaurant - Marsa Al Seef	MEERAS Consultants	1
19	Move n Pick Hotel	Inhouse	3
20	Arboretum Suites Hotel	Varsani Associates	3
21	Nakheel Mall Waitrose	AIBWard Engineering Enterprises	1
22	Elev8 Restaurant	Engineering Office	4
23	Armed Forces Officers Club & Hotel, Abu Dhabi	Clarke Samadin	1
24	Vendorm Hotel-H2	Salfo	11
25	French Toast	BLUEHAUS ENGINEERING	1
26	Jones/Iris/Brute Restaurants	Erga	3
27	100-IBO-SHJ	---	1
28	Pizza Express FCU	---	1
29	Bursa Kebab @ City Walk	---	1
30	Popeyes @ Festival Plaza Dubai	---	1
31	B+G+7+2R Hotel Building Plot 1240524, Muraqqabat, Dubai	---	1
32	Grain of Salt	GREEN CONCEPT ENGINEERING CONSULTANTS	1
33	PIZZA EXPRESS	---	1
34	LABRIOCHE, BLUE WATERS	Meraas	1
35	GROSVENOR HOTEL	Grosvenor Hotel	1
36	AYOUSH TMK/ CAFE	---	1
37	Tortilla @ DIFC & Kababji @ DIFC	---	2



## ECOLOGY UNIT REFERENCE PROJECTS

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## The Group il Gruppo



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*Aliseo Group is a consortium of industrial and commercial companies, offering a complete range of HVAC solutions. We guarantee climate control and air quality through cooling, heating, air filtration and energy saving systems. Our mission is to satisfy all our customers' needs and to maintain the high reputation of our brands which represent the excellence and quality of our products.*

*Aliseo Group supports the policy of energy saving and true environmental care. For this reason, we constantly invest in research and development. In our 5 factories and 6 sales headquarters located in Italy and in the Middle East; we use all high quality materials and our engineers are highly dedicated with vast field experience towards versatile applications which makes/emerges products unique for features and value. Aliseo Group is synonymous of experience, reliability and design in creating solutions dedicated to air treatment. The group is the result of the synergy of companies with long term consolidated experience in heating, cooling, air filtration and energy saving systems.*

*Aliseo Group è una realtà industriale e commerciale che offre una gamma completa di soluzioni in grado di assicurare il clima e la qualità dell'aria desiderata coprendo tutte le esigenze di condizionamento, riscaldamento, filtrazione e recupero energetico. La nostra mission è soddisfare il cliente offrendo prodotti performanti di elevata qualità e divenire un marchio di riferimento per l'eccellenza e la qualità del prodotto.*

*Aliseo Group è sensibile ai temi del risparmio energetico e del rispetto dell'ambiente. Per questo investe costantemente in ricerca e sviluppo prodotto. Nei 5 stabilimenti produttivi e nelle 6 sedi commerciali dislocate in Italia e Medio Oriente, materie prime di alta qualità, esperienza e versatilità danno vita a prodotti unici per caratteristiche e valore aggiunto. Aliseo Group è sinonimo di esperienza, affidabilità, design, nel realizzare soluzioni dedicate per il trattamento dell'aria. Il gruppo nasce dalla sinergia di realtà aziendali di consolidata esperienza nel riscaldamento, condizionamento, filtrazione e recupero energetico.*





## The Group in numbers



52

turnover  
(€ million)



232

staff



42

export  
countries



1,200

special  
references



9

branches



26,132

production area  
(m<sup>2</sup>)





the best environmental control,  
of the world's tallest building

## Burj Khalifa | Dubai

**829.80** meters high

**162** floors

**344,000** m<sup>2</sup>

**58** lifts

**39,000** tons of steel

**4** € million

**6,000** special Mekar's FCU



the best environmental control,  
of the ultimate hotel experience

## Burj Al Arab | Dubai

**7** stars

**202** suites

**321** meters high

**70,000** m<sup>3</sup>

**230** meters of foundation

**9,000** m<sup>2</sup> of steel

**2.25** € million

**2,000** special Mekar's FCU

**650** special Mekar's AHU





the best environmental control,  
of the FIFA World Cup 2022 stadium



## Al Rayyan Stadium | Qatar FIFA World Cup 2022

**44,740** seats

**3,400** parking lots

**GSAS** certified

**LEED** certified

**2.8** € million

**865** Mekar's FCU

**170** Mekar's AHU



Best high profile units  
in the most technologically  
advanced racing circuit of Formula 1

## Yas Marina Hotel | Abu Dhabi

**5,389** glass panels

**F1** integrated Formula 1 track

**499** rooms

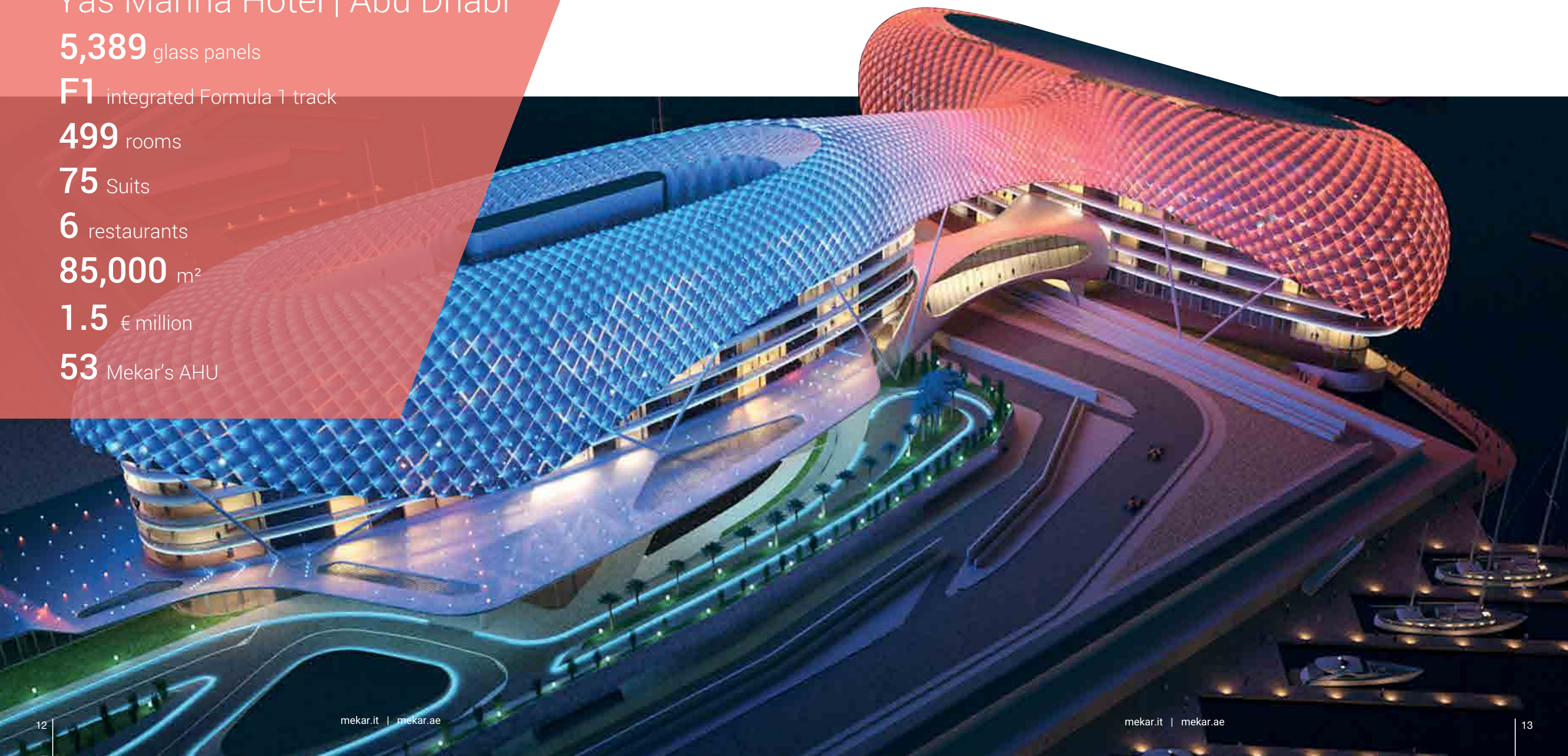
**75** Suits

**6** restaurants

**85,000** m<sup>2</sup>

**1.5** € million

**53** Mekar's AHU





Tailor made units for  
a new generation of distinctive luxury

## The Royal Atlantis Resort | Dubai

**43** plans

**795** rooms

**231** residences

**13** restaurants

**90** pools

**173,398** m<sup>2</sup>

**2** € million

**4,000** Mekar's FCU





Quality and performance,  
certified

Certified solutions,  
full operation even in the event  
of an earthquake

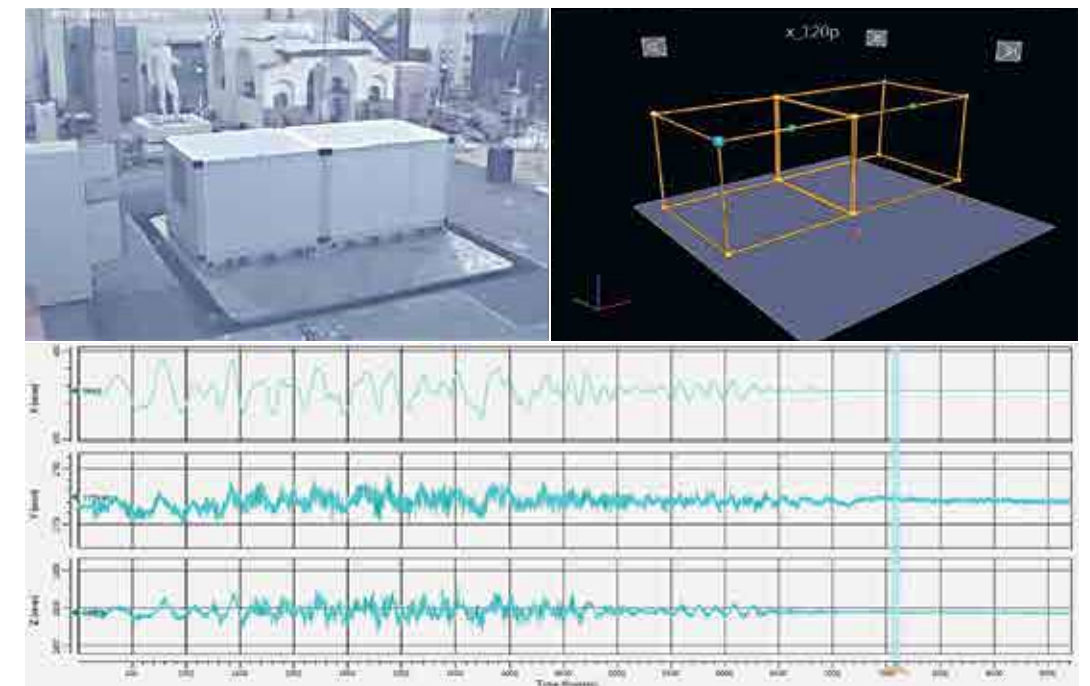
Quality



Safety



Seismic tests performed at  
**ENEA**  
National agency for new technologies,  
energy and sustainable economic development.





Quality and skills,  
at your service



Support



support



analysis & consulting



installation & testing



spare parts



preventive maintenance



training



technical interventions



customized warranty solutions

From concept to installation,  
a turnkey solution





Continuous  
training and innovation,  
also in human capital

Software Selection



Training



MEKAR Academy



Software



Technical sheets and  
specifications



Specifications  
descriptions



Technical drawing  
(dwg/dxf)



BIM file  
(Building Information Modeling)



Psychrometric  
charts



Adjustment description  
and related diagrams

We believe the company is made first and foremost of people. For this reason, we invest in human capital and training, convinced that only by sharing ideas, solutions and needs can responses be provided to an increasingly evolved and demanding market.

Since 1974, we have evolved and specialized in treating in an excellent way and with conscious choices, the most important of the natural elements: the air. In order to better convey our values and share choices and needs with our partners and our customers, we founded Mekar Academy.

We offer training courses for consultants, designers, installers and specialists in the sector in order to share topics such as product innovations, new solutions, regulatory updates and in order to see firsthand the quality of the products and our services that we want to be able to put at the service of our partners.



# Innovative solutions, for every kind of need

The experience and know-how acquired in over 45 years of activity in the sector, wide-ranging flexibility and dynamism that has always characterized our company's DNA and the ever increasing attention paid to the human capital that makes up our team, have garnered us recognition on the market today as a reliable player who offers fully customized solutions according to customer specifications.

Thanks to our engineering, a research laboratory and partnership with the foremost European laboratories, we respond to all sorts of needs, whether it involves air treatment for comfort purposes or specific areas such as industry, manufacturing, naval, hospital, food or oil & gas, where durability, reliability and full operation must always be guaranteed.

With dedication and passion, we know how to listen to the needs of our customers, and supply turnkey solutions, guaranteed by years of experience in the sector and by products designed, developed and manufactured entirely in Italy.



Residential



Business



Public



Industrial



Naval



Chemical



Enology



Museum



Hospital



Food



Process



Pharmaceutical



## 23MK

Air Handling Unit for  
The Service Sector



## 23MK-Hy

Air Handling Unit for  
Hospital Applications



## 23MK-Pharma

Air Handling Units  
for Pharmaceutical Industry



## 23MK-Ecology

Air Handling Unit  
for Kitchen Exhaust



## 23MK VRF

VRF Integrated FAHU



## 23MK-Food

Air Handling Unit for  
the Food Industry



## 23MK-Pool

Air Handling Unit for  
Pools and Spas



## 23MK-Marine

Air Handling Unit for Naval  
And Offshore Sector



## 23MK-HiTech

Air Handling Units  
for Industry



## 24MK

Vertical Floor  
Mounted Units



## 09MK/09MKHS

Low Static, Ducted  
& Exposed Fcus



## UTC

Double Skin  
Fan Coil Units



## 07MK

Large Capacity Exposed  
High Static Fan Coil Units



## Hygiene FCUs

Hygienic Centrifugal  
Fan Coil Unit



## 10MK

High Efficiency Heat  
Recovery Unit



## Versatile FCUs

Decorative / Ducted Fcus



## MVPS

Mekar Virus Protection System



# 23MK

Air handling unit for the service sector



The 23MK series air handling units are characterized by sturdiness, flexibility, reliability and a deep industrialization, which allows to guarantee speed in delivery times while not renouncing to extreme versatility and multiplicity of configuration.

These features make it possible to maximize the combination of required performance, air crossing speed on the batteries, dimensional compactness and investment containment.

The 23MK series air handling units are available for a range of capacities between 1000 and 80000 m<sup>3</sup> / h and with total pressures up to 2500 Pa. However, in special execution units with higher values of flow rate and pressure can be made, based on specific customer requirements.

# CONSTRUCTION FEATURES

The details make the difference

## STRUCTURAL PROFILES



Exclusive Mekar "MK-Pro 2.0" aluminum profile, specially designed and developed to optimize the construction aspect of the range. Available in the aluminum version with natural finish or in anodized aluminum, in the version with or without thermal break.

1

The thermal cut is guaranteed by inserting a breaker segment made of extruded polyamide thermal conductivity 0.30 (W/m°K), which guarantees an optimal compromise between structural strength and maximum insulation capacity. Is also possible to select the profile even in the configuration injected with polyurethane foam density 45 kg/m3, thermal conductivity 0.024 (W/m°K).Z

2

The particular conformation of the geometries and the constructive choices adopted make it possible to completely reduce the contact between external and internal surfaces, thus guaranteeing a total thermal bridge paneling.

3

The sealing gasket directly integrated on the corner profile allows to completely avoid the contact between the treated air inside the unit and the external surface. In addition, the gasket eliminates the presence of the typical gap between the panels, guaranteeing a continuous surface, free of gaps where dirt can be deposited, for the benefit of a simpler and more effective sanitizing of the surfaces.

## PANELING

**60 mm**  
(Standard)

Casing classification  
according to EN1886

Mechanical resistance	D1
leakage	L1
filter by-pass	F9
transmittance	T2
thermal bridges	TB2/TB3

**100 mm**  
(Optional)

Classification casing  
according to EN1886

Mechanical resistance	D1
leakage	L1
filter by-pass	F9
transmittance	T1
thermal bridges	TB2



## INTERNAL SURFACES

The internal surfaces are completely smooth and free of screws, since all the fixings are confined inside the aluminum profile. This avoids stagnation of dirt and makes maintenance, cleaning and sanitizing operations easier, faster and safer.



## ANGULARS AND BASE

Structural corners made of injection-molded PA6 Nylon, reinforced with glass fiber or alternatively and optional, made internally in stainless steel. The base is instead made of press-bent sheet metal of high thickness and selectable in multiple variations in terms of material, thickness, finishes and heights.



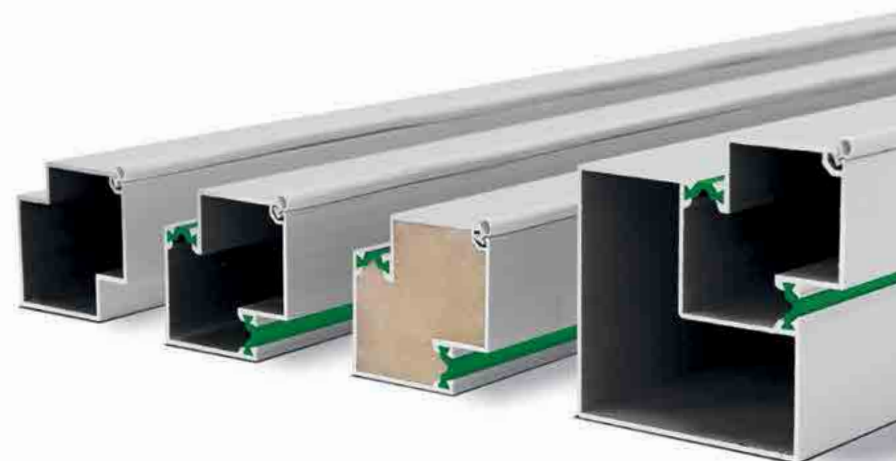
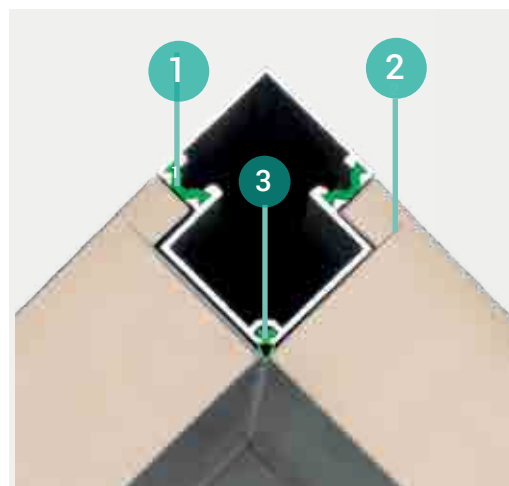
## PANELS AND DOORS

In order to preserve the integrity of the insulating material and facilitate cleaning operations, each screw used to fasten the panels is coupled to an insert made of Nylon, appropriately developed to guarantee the complete integrity of the paneling even in the face of multiple interventions. The unit can also be configured with multiple types of fixed or adjustable hinges, standard or thermal cut handles of the fixed type, adjustable and with safety key or ratchet latches with reinforced omega for doors under pressure.



## THERMAL-ACOUSTIC INSULATION

Configurable in two alternatives, with insulation in injected polyurethane foam density 45 kg/m3, thermal conductivity 0.024 (W/m°K) and reaction class to fire B2 or with mineral wool insulation density 90 kg/m3, thermal conductivity 0.039 (W/m°K) which offers excellent performance in terms of thermal / acoustic insulation and excellent fire behavior with reaction class A1.





## FOCUS POINT

Innovation and constant search  
for maximum efficiency

### HEAT RECOVERY SYSTEMS

### OVAL TUBE TECHNOLOGY

### ELECTRONIC FILTER

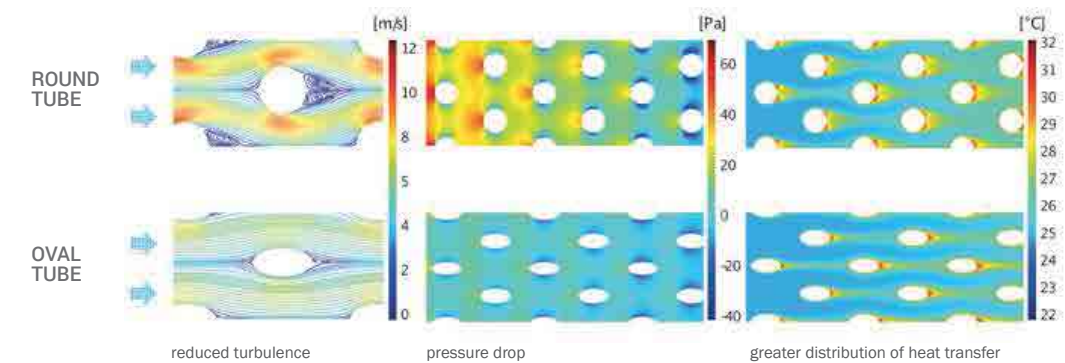
### HYBRID ADIABATIC HUMIDIFICATION / COMPACT ISOTHERMAL HUMIDIFICATION

## OVAL TUBE TECHNOLOGY

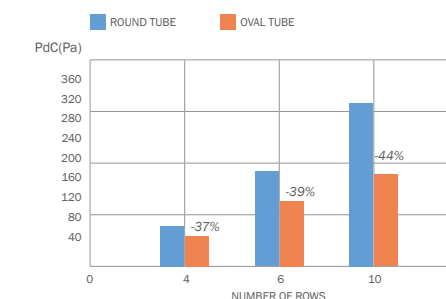
Energy efficiency in buildings is forcing heat-carrying fluid generators to work with increasingly lower thermal levels in order to increase the performance of the generators themselves. Consequently, for the same power output, the heat exchange battery of the CTA requires a greater surface area to the detriment of the load losses and therefore of the overall electrical absorption of the CTA.

It is for these reasons that MEKAR, as an alternative to the traditional round tube heat exchangers, proposes the OVAL TUBE technology which guarantees an improvement in performance up to 15% and a reduction in air side pressure losses over 40%.

Round tube vs oval tube



Air side pressure drop



## HYBRID ADIABATIC HUMIDIFICATION / COMPACT ISOTHERMAL HUMIDIFICATION

Two adiabatic methods, cleverly combined.

Hybrid humidification is based exclusively on the advantages of two types of humidification such as atomization and evaporation. In this way, there is a lasting solution to the problems that may occur in the event of separate use of these techniques. In terms of hygiene, energy efficiency and economy, the humidification system is therefore the first choice.

#### Atomization

Humidification water is atomized by low-pressure molecular atomizers. The atomising nozzles have an adjustable spray mist and are optimally distributed over the entire section of the appliance. This arrangement allows a high evaporation effect and a homogeneous distribution of humidity.



### Evaporation

The patented evaporation unit in high-quality ceramic is located at the end of the humidification section. It captures the humidification water and achieves the best possible post-evaporation. The ceramic allows the maximum use of the precious humidification water. At the same time, it prevents the accumulation of water in the downstream components. Hybrid humidification always guarantees air free of aerosols and hygienically humidified.

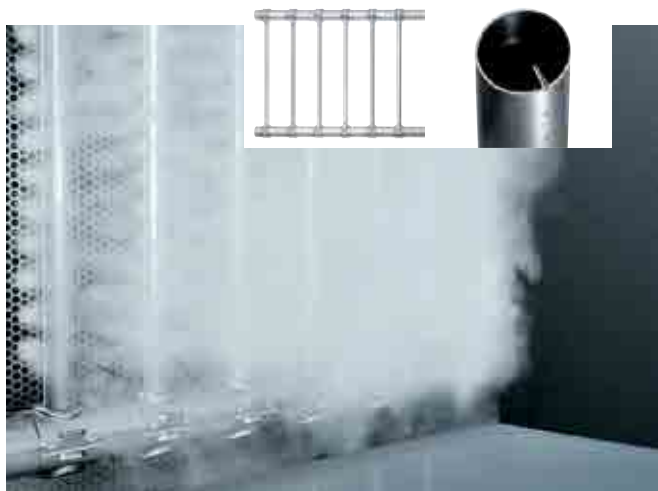
### Adjustable molecular atomizing nozzles

Low pressure operation already allows considerable energy savings, thanks to low compression work. Low-pressure molecular nozzles work in the range of 2 to 10 bars in an absolutely wear-free way. The nozzle itself is housed on a flexible carrier clip that can be adjusted in a straight position or with an angle of 15°. The nozzle spray cone can therefore be directed so that even the humidification water reaches the evaporation ceramic completely in the peripheral critical areas.

Always with great attention to space, MEKAR offers a multi-lance steam distribution system that reduces absorption distances compared to traditional steam distribution systems.

The patented central flow injectors nozzles extract the steam from the center of the distribution pipes, where it is hot and drier. In this way, it is ensured that the steam is introduced into the humidification section without the formation of drops. Otherwise, when the steam touches the cooler outer surfaces of the tubes, it may condense.

A uniform distribution of the nozzles through the entire distribution system ensures a homogeneous exit in the air flow and reduces the humidification path compared to traditional steam pipes.

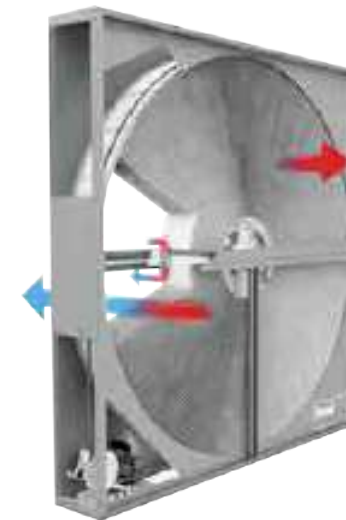


## DIFFERENT HEAT RECOVERY SYSTEMS



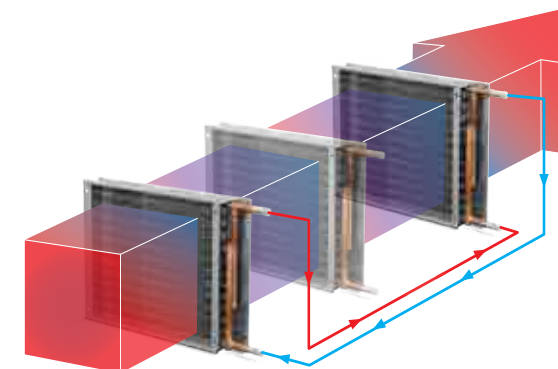
### CURRENT PLATE HEAT EXCHANGERS

Aluminum plate heat exchanger in counter-current that allows to increase the volume of exchanged air, guaranteeing very high recovery efficiency, reducing the overall dimensions, ensuring robustness and high resistance values to the differential pressure with a recovery efficiency up to 93%. Through such high efficiency values, it is possible to compensate the electric consumption values of the fans, thus allowing to configure more compact air handling units.



### ROTARY ENTHALPIC HEAT EXCHANGERS

Rotary heat exchangers that allow the exchange not only of heat, but also of humidity. Desiccant wheel to transfer sensitive and latent thermal energy with very high efficiency. Aluminum matrix coated for moisture transmission in winter and summer, consisting of a cylindrical rotor and a containment frame complete with special seals to minimize the leakage between the inflow and expulsion air flows. Also available with specific treatments to work in an aggressive atmosphere, such as applications located in coastal areas.



### HEAT PIPES

With increasing demands for energy efficient buildings, it is essential that energy is not wasted. Utilising a heat pipe, thermal energy can be recovered from warmer air and added to cooler air. In temperature climates, this permits energy saving to be realised through preheating of the "outside" air. Conversely, in hot climates, the savings are associated with pre-cooling of the outside air.

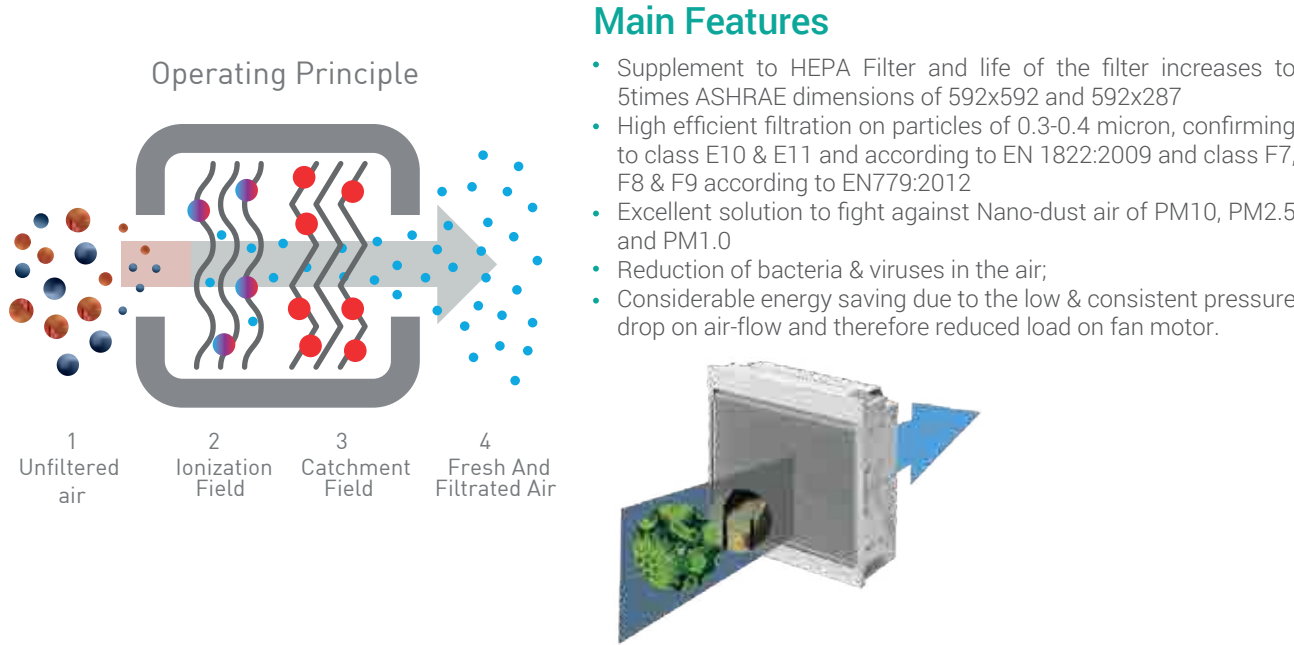


# ELECTRONIC FILTRATION

## Inactivation of Airborne Virus by Electronic Filter

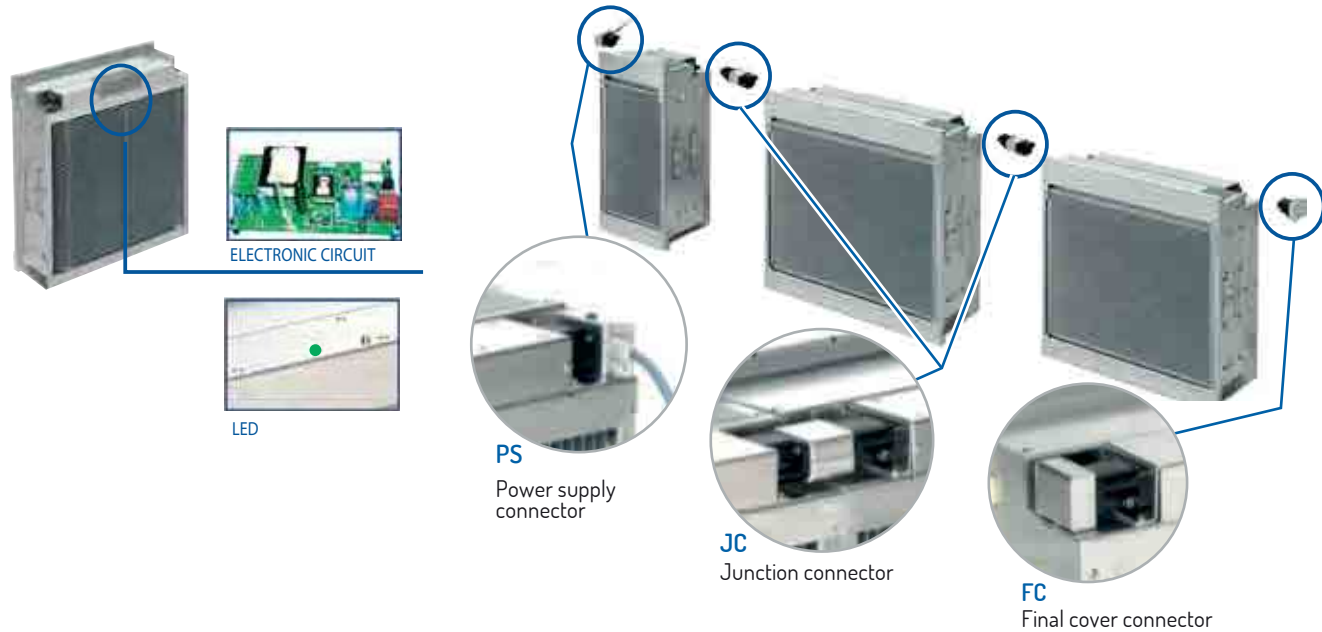
The new generation patented Electronic Filters FE System offers filters in classes of E10, E11 and F7, F8 & F9. Modular electronic filter consists in a purification system that removes bacteria and virus.

The System, through an electric potential difference generated by emission and collection electrodes, separates pollutants from the gas flowing through the electrodes. In this way, airborne particles of any size are electrically charged due to an electric field generation from the emission electrodes: this causes the ionization of the gas which, passing through the collection field, makes the ions collide with the pollutants. Part of the ions electrical charge is transferred to these substances, causing them to fall in the collection field where they are held. The air that flows out is completely purified from pollutants of any kind and most of all, of any size.



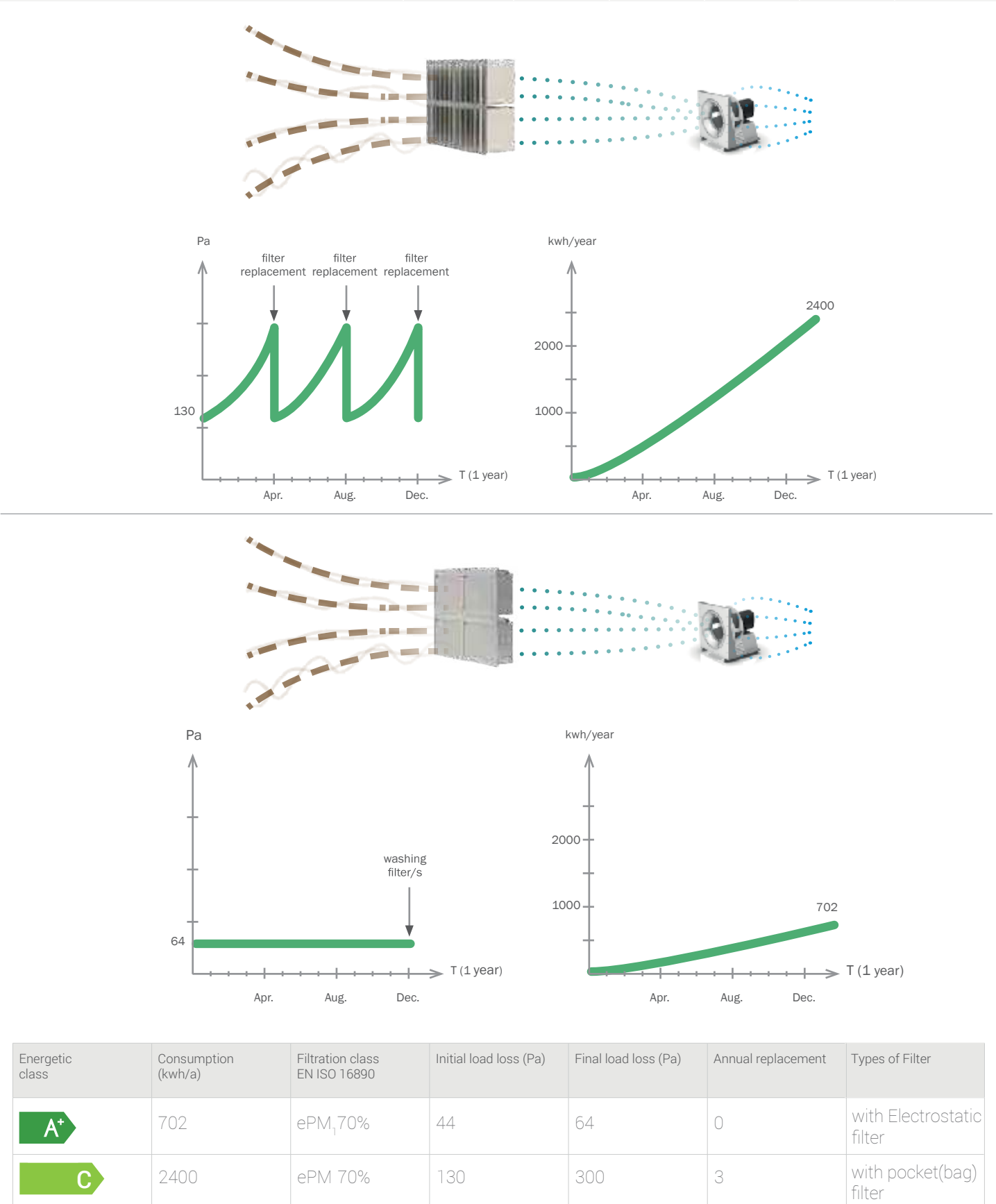
## Built-in with Electronics for Monitoring / Easy removal for maintenance

Modular electronic filter designed with IP55 electrical box made up of polycarbonate for the connection of other electronic filters which are within the same filtration unit. The control board have status display of green/red two-coloured LED for run/off and clog condition. NO/NC contacts available for sending the filtration status to supervision system. The electrical box designed to connect 9 electronic filters through multi polar connection system in line for at maximum 3 rows for a total of 27 electronic filters.



### Electronic filter Efficiencies

Air Velocity	m/sec	1	2	2.5	3	4
Filtration class according to EN 1822	E10-E11	E11	E10	-	-	-
Filtration class according to EN 779	F7-F8-F9	-	-	F9	F8	F7
Filtration class according to UNI EN ISO 16890	ePM%	-	ePM <sub>1</sub> 95%	ePM <sub>1</sub> 90%	ePM <sub>1</sub> 80%	ePM <sub>1</sub> 70%



## FAN WALL SYSTEM

The Mekar range of products, in addition to being equipped with high-performance plug fan or external rotor motor fans, can also be configured with the innovative Fan Wall System that ensures significant benefits including:

- Redundancy and guarantee of operations
- Ease of maintenance and handling
- Reduction of power consumption
- Greater compactness of the unit
- Uniformity of the air flow on the exchangers.



## PLUG & PLAY AIR HANDLING UNITS

We aim to provide integrated, functional and complete solutions capable of responding to the most specific needs, with considerable added value and reliability for our customers.

For this reason, over the years, MEKAR has also specialized in the supply of complete regulation and wiring products, all made directly in the company by highly qualified personnel and technicians specialized and able to satisfy any control request.

### Plug & Play, Factory built AHU with

- Switchcard
- Sensors and actuators(field elements)
- Electronic control
- Communication modules



DeviceNet™

EtherNet/IP™

PROFI<sup>®</sup>  
NET

PROFI<sup>®</sup>  
BUS

KNX

WebServer

M-Bus

Modbus

ASHRAE BACnet™

CANopen

LonWorks

SNMP



# 23MK-Hy

Air handling unit for hospital applications



DIN 1946-4



When the field of application of air handling units is critical with the hospital environment's cleanliness and hygiene requirements that must be guaranteed become stringent.

Mekar has developed and certified a specially dedicated range able to comply with the specifications of the DIN 1946-4 standard, which applies to planning, construction, testing and operation (including maintenance) of ventilation and air conditioning systems in buildings and in health care rooms, and in which medical examinations, treatments and surgical operations are performed on people, as well as in directly connected rooms.



## Certification



DIN 1946-4

The HY series guarantees construction standards certified according to this legislation, in particular:

- Internal surfaces and components in AISI 304 steel
- Smooth internal surfaces to ensure complete product sanitation
- Minimum space of respect at the various sections
- Simplification and facilitation of access necessary for maintenance and cleaning
- Extractable components (batteries, fans, silencers, etc.)
- Dampers conforming to class 2 EN 1751
- Double or triple filtration stage (F7, F9 and H13); UV-C lamps
- VDI 6022 certified steam or atomised water humidifiers
- Inclined tanks and draining bottoms
- Extractable components to facilitate maintenance and cleaning operations
- Use of intrinsically safe and hypoallergenic materials
- Full guarantee of operation and high efficiency
- Fans in stand-by and directly coupled
- High degree of resistance to air leakage.



## Adequate filtration

Air cleaning classes for particles according to ISO 14644-1

ISO (N)	Class	Maximum concentration limit in number of particles / m <sup>3</sup> of air					
		0.1 µm	0.2 µm	0.3 µm	0.5 µm	1 µm	5 µm
ISO 1		10	2				
ISO 2		100	24	10	4		
ISO 3	1	1'000	237	102	35	8	
ISO 4	10	10'000	2'370	1'020	352	83	
ISO 5	100	100'000	23'700	10'200	3'520	832	29
ISO 6	1'000	1'000'000	237'000	102'000	35'200	8'320	293
ISO 7	10'000				352'000	83'200	2'930
ISO 8	100'000				3'520'000	832'000	29'300
ISO 9					35'200'000	8'320'000	293'000

Sequence of filtration classes in the cleanroom

Air cleaning class (ISO 14644-1)	Degree of air cleaning (F.S.209 D)	Air spares (vol / h)	Sequence of filtration classes for the various stages				
			I	II	III	IV	V *
ISO 3	1	360-600	G4	F8		H12	U17
ISO 4	10	300-540	G4	F8		H10	U16
ISO 5	100	240-480	G4	F7	F9		U16
ISO 6	1'000	40-120	G3	F7	F9		H14
ISO 7	10'000	20-40	G3	F6	F8	H13	
ISO 8	100'000	10-20	G3	F6	F8	H12	

\* The last stage in the cleanroom, not in the plant



## High Sanitation

### Condensate collection tanks

Inclined completely draining to avoid water stagnation, the tanks have an inclined bottom in the sense of air for complete drainage. They are always made of stainless steel.

### Central steam humidifiers and with local generator and immersed electrodes

Steam is intrinsically safe. Where there is a centralized steam production plant, the distributor tube is fed with superheated steam through a modulating control valve. For small systems, it is possible to provide a saturated steam generator with immersed electrodes, with modulating operation.

### Water humidifiers

A high-pressure pump allows the cold water to be sprayed into very fine drops, which immediately evaporates, leaving the inside of the plant practically dry. The nozzles can be partialised and the water flow is regulated by an inverter to obtain a modulating operation of the humidifier. Demineralized water must be used.

### Dedicated sanitary sealants

The sealant, although to a modest extent, is used to ensure the air or water tightness of some components. The sealant used is anti-bacterial, anti-mold and does not contain any components which are dangerous or allergenic.

### UVC lamps

The germicidal ultraviolet radiation is characterized by a band of wavelengths such as to destroy bacteria, viruses and other microorganisms, modifying their DNA or RNA and then inactivating them and preventing their reproduction. This principle allows air disinfection.

### Internal construction

The maintenance of the hygienic level is guaranteed by a series of technical and design solutions, designed to ensure a high ease of cleaning operations. All surfaces and materials applied are characterized by a particular predisposition to maintain a perfect hygienic condition.

The inner part is made of AISI 304 or 316 steel and includes draining bottom panels and the dedicated drain for collecting the cleaning / disinfectant liquid. This guarantees a high standard of hygiene, through the complete drainage of liquids favored by the particular inclination of the panels.

### Removable batteries

The batteries are mounted on guides and are free to be removed from both sides of the control unit once the corresponding panel has been removed.

### Silent septum

The silencer septa are mounted horizontally to be individually removed laterally after removing the relative panel. Mineral wool is wrapped in waterproof plastic material and contained by a micro-perforated sheet. In this way, there can be no release of fiber into the air flow and the silencer septa are washable.

### Fan motor units

The fan motor unit can be completely removed from the side for cleaning or maintenance operations.



### Frame and internal profile with double seal

The inside of the plant is completely smooth, with few joints and no visible screws. The gasket mounted on the aluminum profiles prevents the contact between the air and the angular profile, improving the cutting of the thermal bridges, further reduces air leaks and prevents the accumulation of dust by eliminating the cracks.

### “Plug” type fans (without auger)

The absence of the auger limits the interstices where dust can accumulate and in any case the fan is completely visible, controllable and clean. The “plug” type fan is also better suited to a configuration of the pressurized air handling unit as it ensures a more uniform distribution of the air on the downstream components.



## Operating Safety

### Anallergic Materials (Latex Free)

All materials and components installed on the machine are latex-free.

### Ventilating sections

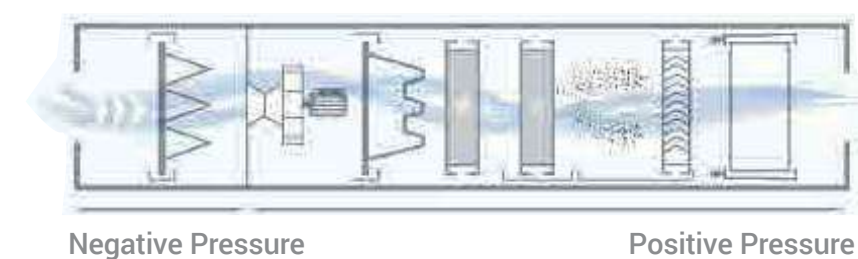
Dual fan 100% compartmentalized.

Where a complete stand-by unit cannot be provided, it can be considered the solution of the only safety fan unit. The fans never work simultaneously. The inlet and outlet dampers of the stopped fan are closed. If the fan flow switch in operation indicates a lack of air flow, its dampers will close, those of the other fan will open and will start running. The fan in alarm can also be inspected while the other fan is running, therefore without stopping the control unit.

### Leak-proofing

In this type of application the absolute degree of air leakage must always be guaranteed. In order to avoid contamination, the unit always works at positive pressure, therefore any air leaks are from the central to the outside, thus excluding the danger of infiltration of untreated air from the outside towards the central.

In this type of application the suction and prefilter are positioned upstream of the fan, all the other components downstream.





# 23MK-Pharma

Air handling unit for the pharmaceutical industry



DIN 1946-4



The pharmaceutical sector imposes very hygienic technical solutions that avoid the transmission of pathogenic component in the environment.

MEKAR guarantees a construction standard and technical solutions in line with the specifications of this sector. In particular:

- DIN 1946-4 certified construction standards
- VDI 6022 certified filtrations
- HEPA filtration
- Germicidal lamps
- Dedicated climate control for precise maintenance of ambient overpressure
- Maintenance of thermo-hygrometric conditions with low relative humidity % using drying wheels

Moreover, in order to increase antibacterial performance, MEKAR has a new film coating with antibacterial properties.

# 23MK - Ecology

Air handling unit for kitchen exhaust



Dedicated solutions for the ecology sector, where there is the need to guarantee the healthiness and neutrality of the working environment in an efficient and continuous manner, while reducing the environmental impact through the removal of polluting substances such as oil vapors, fumes and odors present in the extracted air volumes.

Thanks to an accurate sizing of the filtering stages and the adoption of innovative technical devices such as electrostatic filters. The units of the 23MK-Ecology series allow to ensure not only maximum efficiency but also a significant reduction in operating costs. Thanks to a lower demand of ordinary and extraordinary maintenance, guaranteed by the constructive choices specifically adopted for this area.

Features of Ecology unit/ESP

- Four stages of filtrations
- ASHRAE Dimensions
- Electrostatic cell with blades to facilitate oil drainage
- Built-in with electronics and internally protected with resin
- LED indicating filter status



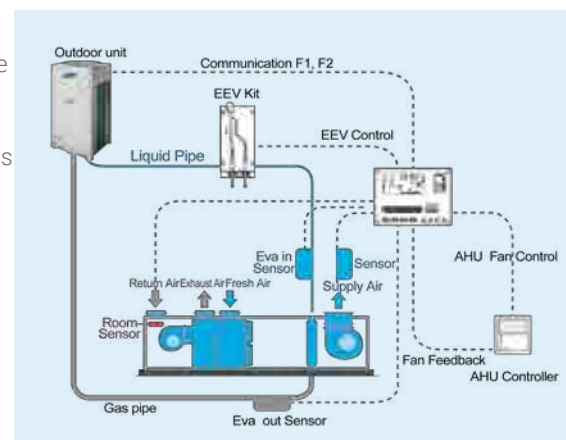
# VRF Integrated Air Handling Unit

Air handling units for VRF



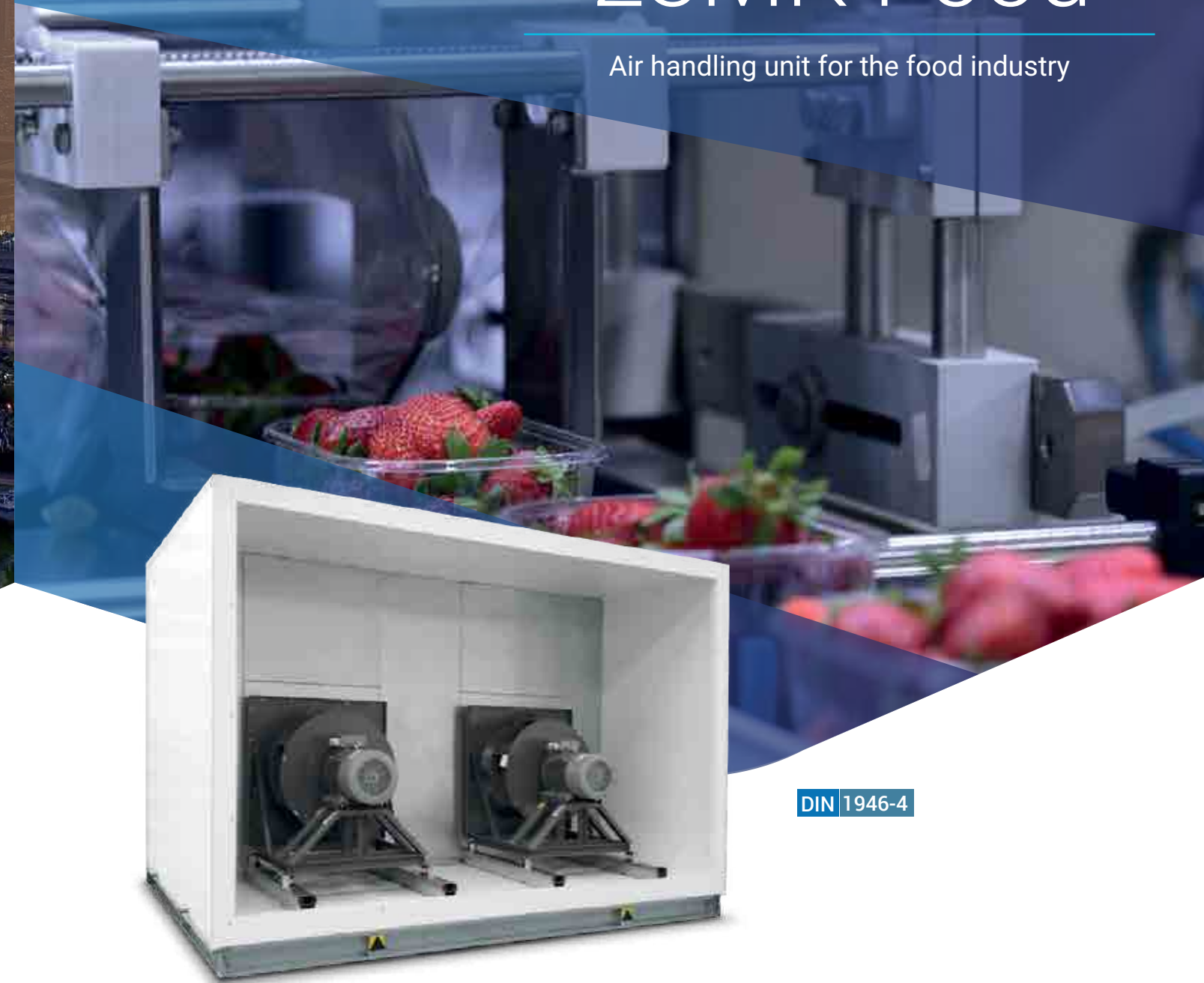
FAHU/AHU Integration with VRF outdoor units results in energy saving, improved performance and efficiency.

- Optimize performance and energy saving (around 30%) through variable capacity control
- Seamless operation of FAHUs for varying ambient conditions
- Less wear & tear compared to conventional condensing unit, thus increased life for FAHU & VRF
- Single point ownership
- Factory fitted expansion valves and sensors
- Easy correction of refrigerant piping to AHUs
- Technical room for all accessories with access panels
- Discharge air temperature control
- Plug and play option for complete system
- Ease of integration with BMS



# 23MK-Food

Air handling unit for the food industry



DIN 1946-4

The food sector as well as requiring a construction standard that guarantees the highest level of hygiene in line with the HY series, must be able to guarantee the absence of structural thermal bridges due to the low operating temperatures in which it is customary to operate in these areas.

The use of structural profiles in AISI 304 or AISI 316 stainless steel, oversized panel thicknesses or fiberglass solutions, allow, depending on the specific application, to create units dedicated to giving concrete answers to the many needs of the food industry.

Mekar has always been recognized on the market as a reliable, flexible and dynamic partner. Thanks to its skills and know-how to provide solutions for every application need. The countless references made in cross-cutting areas and with important brands in the food industry, both nationally and internationally.



# 23MK - Pool

Air handling unit for pools and SPAs



The indoor pool is an energy-intensive application context and this is why the air treatment has a fundamental function both in maintaining the thermo-hygrometric conditions necessary for user comfort and for energy recovery.

We believe that each project must be examined and treated with dedicated units based on the following variables: climate location, type, period and method of use, water and air temperature, relative air humidity, tank surface, ambient air volume, air exchange.

Together, with a dedicated technical solution based on the above variables and depending on the chloride concentrations, MEKAR can also have construction standards suitable for the application that prefer anodized aluminum, AISI 304 or AISI 316 stainless steel and high resistance epoxy paints. The choice can be directed to a dehumidification unit with only ventilation or with an integrated cooling circuit.

# 23MK - Marine

Air handling unit for naval and offshore sector



Official supplier

**FINCANTIERI**

Mekar is able to offer solutions for use in the marine and offshore sectors, both in terms of climate comfort and in terms of maintaining optimal operating conditions in technical or service rooms.

The products developed are always the result of an intense collaboration between the Company and the Customer, in order to be able to offer the most suitable solution to guarantee total functionality, durability and extreme reliability, in compliance with the most stringent health and safety regulations specified by the shipowner.

Mekar, as a company of the Aliseo Group, can take advantage of highly qualified transversal skills also in the field of refrigeration, allowing it to offer integrated turnkey solutions, efficiency and compactness, all characterized by an extreme degree of customization, both in terms of size, constructive and performance.



# 23MK - HiTech

Air handling units for industry



Dedicated and fully customized solutions for different industrial applications.

Mekar, thanks to its know-how and to the marked flexibility and dynamism that has always characterized its engineering, is able to find turnkey solutions with different purposes, such as the increase in production efficiency, energy saving, safeguarding the wear and tear of equipment and technical systems, recovery of energy sources that are differently dispersed, high temperature treatments or the need to guarantee a strictly constant climate control and absolute air quality.

Numerous and transversal are the references in the industrial world, in which Mekar has succeeded in developing, designing and providing solutions aimed at satisfying the specific requests of the Customer, with innovative and cutting-edge proposals.

# 09MK

Ducted & exposed FCUs



MEKAR 09MK series fan coil units are designed for high performances, modern design and robust construction, entire materials and components utilized for constructing the units are of high quality standard. These units are precisely engineered toward achieving economical operation, quick and low cost installation, low height, long life trouble free operation, easy maintenances and low noise level for quiet operation.

- Ultra compact slim units
- Robust encapsulated constructions with GI Casing & Optional pre-painted casing
- Available in 8 sizes and 2 versions to suit the requirements
- Airflow range 320 to 4024 CMH and capacity 2.0 Kw to 19 Kw
- 09MK is blow through type and 09MKHS is draw through type
- Easy normal drain pan & Fan motor
- EC motors



# UTC

Double skin ducted fan coil unit with EC motor & UV lamp



- Ductable air treatment units are available in 7 different sizes, cooling capacities starting from 3.2 to 50.6KW.
- Airflow range from 670 to 9250 m3/h.
- Draw through arrangement.
- Units made of heavy gauge galvanized steel.
- The blower section is composed by one or two centrifugal fans with statically and dynamically balanced aluminium impellers.
- The three-speed electric motor is directly coupled to the fans and cushioned with flexible mountings to ensure low noise.
- The cooling coils are high grade copper tubes expanded into aluminium fins.
- The copper headers have male fittings (GAS threads) and the air vents are easily accessible.
- IP44 motors.
- Perforated acoustic lining

# 07MK

Large capacity exposed high static fan coil unit



Units suitable for horizontal concealed installation and for room installation, available in 3 versions:  
 Version S: with aluminium frame and double skin panels 17mm thick (sandwich with galvanized internal surface and prepainted external surface) isolated by injected polyurethane.  
 Version M: with aluminium frame and double skin panels 25mm thick (sandwich with galvanized internal surface and prepainted external surface) isolated by injected polyurethane.  
 Version E: with aluminium frame and single skin panels made in galvanized steel prepainted (external face) and isolated by acoustic insulation.  
 This fan coil unit, with reduced overall dimensions and high performance, suitable for all installations where high capacities and high static pressures are required:

- Airflow range -770 to 5,700 m3/h
- Total pressure – up to 100 pa
- Cooling capacity range -7 to 33 Kw
- Number of models- 9
- No of rows -3/4/6



# Hygienic FCUs

Hygienic Centrifugal fan coil unit



The guarantee of an ideal and healthy climate inside the rooms which ensures comfort and safety, favoring the individual's psycho-physical wellbeing, improving their health, performance and concentration, are today's aspects of primary importance. Appropriate air management in the environments in which we live not only in terms of thermal gradient but also in terms of purity, is a vital aspect to ensure the well-being of the occupants and ensure excellent maintenance of health conditions.

Mekar, with this new series of certified fan coil wanted to give a concrete answer to the primary aspect of user safety, designing and developing a dedicated range of units designed to guarantee high standard sanitary conditions with multiple versatility in the field applications ranging from the most common applications such as offices, schools, gyms, SPAs and common places in order to offer a healthier and safer environment to more sensitive applications such as hospitals, clinics, food and pharmaceutical industries where absolute levels of hygiene must be guaranteed.

The introduction of innovative technical-constructive solutions, the use of stainless materials and cutting-edge polymers tested according to DIN EN ISO 846 and capable of inhibiting bacterial proliferation have allowed the realization of two series of units complying with the parameters set by the guidelines VDI 6022, increasingly recognized at European level as a reference point for the design of innovative public places where an excellent level of hygiene and comfort must be ensured for the total well-being of people.

- Airflow range -100 to 1,600 m<sup>3</sup>/h
- Cooling capacity range -0.5 to 9 Kw
- Number of models- 10

# 10MK

High Efficiency heat recovery unit



The range consists of 6 sizes for the series equipped with asynchronous motors and 8 sizes for the series equipped with innovative brushless motors. The units are suitable for horizontal installation, with an air flow range from 320 to 4700 m<sup>3</sup>/h and recovery efficiencies up to over 90%.

The wide range of capacities and configurations allow to satisfy multiple application requirements for different areas ranging from residential to industrial. These series of recuperators have been suitably sized in order to comply with the requirements of the European Ecodesign Directive (EU Regulation 1253/14).



# Versatile FCU's

Decorative/ Ducted Fcus



- Compact slim fan coil units.
- Available in 12 different sizes and 7 versions to easily suit all installation requirements.
- Airflow range from 130 to 2000 m3/h.
- Wall mounted or floor mounted type with supporting feet and bottom or front air intake.
- Horizontal ceiling mounted type with rear or bottom air intake.
- Vertical wall recessed type with top or front air outlet.
- Horizontal ceiling concealed type with front air discharge.
- The units are available in double skin
- EC motors.
- IP44 motors.



The position of the lateral air distribution louvers allow maximum exploitation of the Coanda effect in summer modality, offering ideal comfort without any annoying typical cold air flow. Thanks to this detail, the cold air tends to flow towards this ceiling distributing itself in a regular, gradual way inside the room, guaranteeing ideal climatic comfort without the unpleasant thermal phenomena caused by direct cold air.

The wall-mounted water fan coil TOUCH with a tangential fan that offers the maximum acoustic comfort. The modern aesthetics and the innovative technical features make TOUCH the ideal solution for quality and room enhancement. The dedicated study on the different speed of the units has allowed to reach very high performances with minimum noise levels. An innovative solution that allows an easier installation.

# MVPS

Mekar Virus Protect System



The new virus protect air conditioning system is designed to provide very healthy environment by eradicating the bacteria, viruses, pollutants, odor and adding the negative ions to improve the sterilization.

These systems are used for the past two decades and were proven with all test reports. Now, Mekar engineered the solution to suit various capacities & application. The focus given for providing solution to existing air handling units(retrofit) and geared to offer project to project customized sizes.

To highlight, the system certifications have intactness with Eurovent and EN 1886 standards. We are in-line with conventional filtration.

# 24MK

Vertical floor mounted units



The 24MK series air handling units with less footprint are modular sectional units that can be configured to meet the following functions with the use of the appropriate components: filtration, heating, cooling, mixture of ambient air with external air and ventilation for the air to be introduced into the environment.

- Airflow range – 2100 to 19100 m<sup>3</sup>/h
- Static Pressure – 400 Pa



# A reliable partner for a prestigious choice



References and projects developed by Aliseo Group brands

BURJ KHALIFA - DUBAI, U.A.E. • YAS MARINA HOTEL - ABU DHABI, U.A.E. • BURJ AL ARAB - DUBAI, U.A.E. • MINISTRY OF DEFENCE - ABU DHABI, U.A.E. • DUBAI MALL PROJECT - DUBAI, U.A.E. • EMIRATES ENGINEERING CENTER - DUBAI, U.A.E. • ROSEWOOD HOTEL - ABU DHABI, U.A.E. • ROSE CEREMONY HALL COMPLEX - IRAN • TABAN AIRLINE CENTRAL OFFICE - IRAN • KALAMOON UNIVERSITY - DAMASCUS, SYRIA • FACULTY OF ENGINEERING - DAMASCUS, SYRIA • ALEPPO SPORT CITY - ALEPPO, SYRIA • MAMOON UNIVERSITY - ALEPPO, SYRIA

HOSPITAL OF HEART SURGERY - LATAKIA, SYRIA • MINISTRY OF HOUSING- BAGHDAD, IRAQ • MINISTRY OF EDUCATION - BAGHDAD, IRAQ • IMMAM HUSAIN MOSQUE - KARBALA, IRAQ • PEPSI FACTORY - ERBIL, IRAQ • DIYALA HOSPITAL - DIYALA, IRAQ • DOLMEN CITY COMMERCIAL CENTRE, PAKISTAN • WORLD TRADE CENTER, QATAR • AL WAKRA HOSPITAL, QATAR • BUSINESS PARK CROWN PLAZA, QATAR • MUSCAT AIRPORT - MUSCAT, OMAN • BAHRAIN CITY CENTER - BAHRAIN



# Quality and knowledges, supporting your goals



References and projects developed by Aliseo Group brands

MASERATI WORKS - MODENA • AERMACCHI WORKS - VARESE • DIESEL - VICENZA • DIADORA WORKS - TREVISO  
INSTITUTE OF PHOTONICS - MILAN • INSTITUTE OF NUCLEAR PHYSIC - FLORENCE • VENDRAMIN PALACE - VENICE  
METRO - MILAN • UNIVERSITY - SAVONA • HOSPITAL - PIACENZA • PIRELLI BUILDING - MILAN  
AIRPORT - OLBIA • BAULI CONFECTIONERY - VERONA • BARILLA FOOD INDUSTRY - MELFI  
ROPE DISTRICT - AVIANO • PALAZZO REALE VENARIA - TURIN • "S. RAFFAELE" HOSPITAL - ROMA

DUCATI MOTORS - BOLOGNA • FERRARI STORE - MARANELLO • CORRER MUSEUM - VENICE  
"MOLINO STUCKY" GRAND HOTEL - VENICE • NESTLE' - FROSINONE • AIRPORT - PISA  
S.S. GIOVANNI AND PAOLO CIVIL HOSPITAL - VENICE • S. PAOLO STADIUM - NAPLES • UNIVERSITY - VERONA  
NEGRONI FOOD INDUSTRY - CREMONA • YOMO FOOD INDUSTRY - MILAN • FIAT WORKS - TURIN • BASE NATO EU  
PIRELLI, SETTIMO TORINESE - TURIN • BANCA D'ITALIA - GENOVA • UNIVERSITY - MILAN • PALAVELA - TURIN



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INSTITUTE OF PHOTONICS - MILAN • INSTITUTE OF NUCLEAR PHYSIC - FLORENCE • VENDRAMIN PALACE - VENICE  
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AIRPORT - OLBIA • BAULI CONFECTIONERY - VERONA • BARILLA FOOD INDUSTRY - MELFI  
ROPE DISTRICT - AVIANO • PALAZZO REALE VENARIA - TURIN • "S. RAFFAELE" HOSPITAL - ROMA

DUCATI MOTORS - BOLOGNA • FERRARI STORE - MARANELLO • CORRER MUSEUM - VENICE  
"MOLINO STUCKY" GRAND HOTEL - VENICE • NESTLE' - FROSINONE • AIRPORT - PISA  
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PIRELLI, SETTIMO TORINESE - TURIN • BANCA D'ITALIA - GENOVA • UNIVERSITY - MILAN • PALAVELA - TURIN



# Mekar Network

## A Group SpA (Ventilclima, Eden, Venco)

TREVISO - ITALY

## Mekar Srl

VERONA - ITALY

## Mekar Air Handling Units LLC

AJMAN - UAE

## Mekar Air Handling Units LLC - Royal Gulf LLC

DUBAI - UAE

## Mekar Air Conditioning Units LLC

ABU DHABI - UAE

## Mekar Air Handling Units WLL

DOHA - QATAR

## Mekar Operations

MUSCAT - OMAN

## Mekar Operations (Abdul Latif Jameel)

JEDDAH - K.S.A.

## Mekar Operations (Bader Al Mulla & Bro Co)

KUWAIT

## Mekar Operations

MANAMA, BAHRAIN

## Mekar Air Handling Unit Pvt Ltd.

CHENNAI, INDIA

# Approvals Obtained

## From Key Developers

- Aldar
- Adnoc
- Al Wasl
- Abu Dhabi Education Council
- Abu Dhabi Commercial Bank
- Agility
- Al Ain Zoo
- Al Fardan Properties
- Al Fatan
- Al Jaidh Group
- Amouj Muscat
- Ashghal
- Aspira
- Bloom
- Tourism Development & Investment Company
- Command of Military Works
- Damac
- DIFC
- Dubai Municipality
- Dubai Properties
- Emaar
- Emirates Flight Catering
- Engineering Office
- First Abu Dhabi Bank
- GOSI
- Halul Real Estate
- Imam University
- Imkan Properties
- Internal Security Forces
- Katara Hospitality
- King Saud University
- Lusail Real Estate Development Company
- Majid Al Futtaim
- Meraas
- Ministry of Interior (Qatar)
- Ministry of Defense (Qatar)
- Ministry of Health & Education
- Mubadala
- Musanada
- Nakheel
- Oman Airport Management Company
- Omran (Oman Tourism & Development Company)
- Presidential Guard
- Qatar Diar
- Qatar University
- Ramla Real Estate Development
- Saudi Railway Organization
- Schlumberger Middle East
- SEHA
- Simon Property Group
- Supreme Committee
- Union Properties
- United Development Company

## From Key Consultants

- AE7 Engineering
- AECOM
- Alturath Engineering Consultants
- Arab Engineering Bureau
- ARCH Group
- Architectural Consulting Group
- Arif & Bintok
- Associated Consulting Engineering
- ATKINS
- Buro Happold
- Cowi Larson
- Dar Al-handasah
- DAR Consulting Architects & Engineers
- Dara Engineering Consultant
- Dewan Architects & Engineers
- Dorsch Gruppe
- EHAF Consulting Engineers
- Engineering Consultant Group
- ERGA Qatar
- Ghafari
- GHD
- Gulf Engineering
- HOSMAC
- Hyder Consulting / Aracadis
- Ian Banham & Associates
- KEO International Consultants
- Hill International
- Kling Consultant
- MZ & Partners
- Omrania & Associates
- QHC Architects & Engineers
- Ramboll
- Saud Consult
- SSH Design
- Stantec
- TYPESA Group
- Waterman Emirates
- WME Consultants
- WSP Parsons Brinckerhoff



Note

### Note

Note

The diagrams, descriptions and illustrations in this document are to be considered purely indicative and in no way binding. With a view to continuous improvement, and in the face of constant research and development, Mekar Srl reserves the right to modify, even without notice, the technical data and contents reported in this document.





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e-mail: [sales@mekar.ae](mailto:sales@mekar.ae)  
[mekar.it](http://mekar.it) | [mekar.ae](http://mekar.ae)



# Project Reference List





# Samsung Gulf Electronics

**1** Regional Head Office

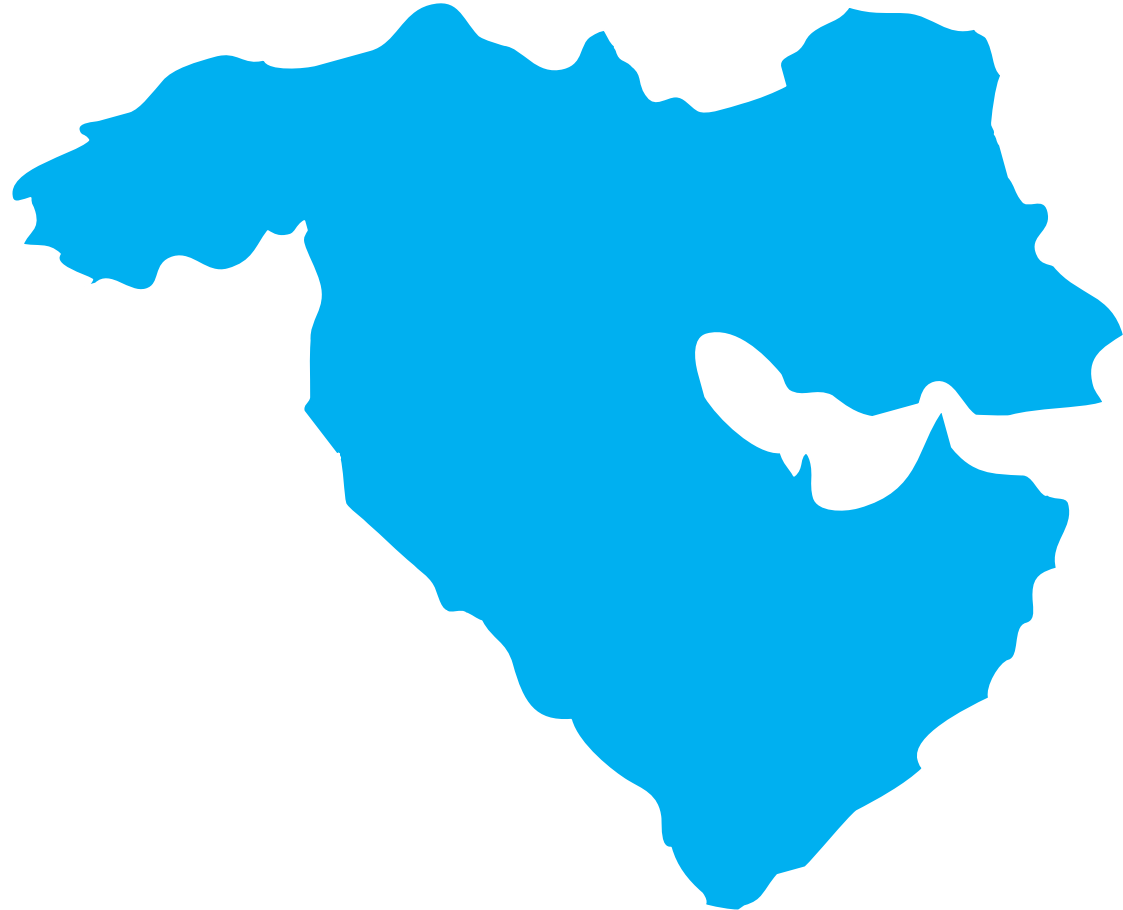
**3** Branch Offices

**11** Sales Distributors

**11** Service Providers

**1** Training Academy

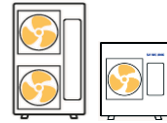
**24h** Customer Service



# Our Work



# Project References



**Project Name:** Mohammad Bin Rashid City



**Location** Dubai – UAE



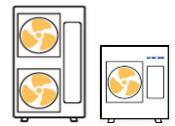
**System Capacity** 12,800 Ton



**Product Type** CAC



# Project References



**Project Name:** Sidra Villa's



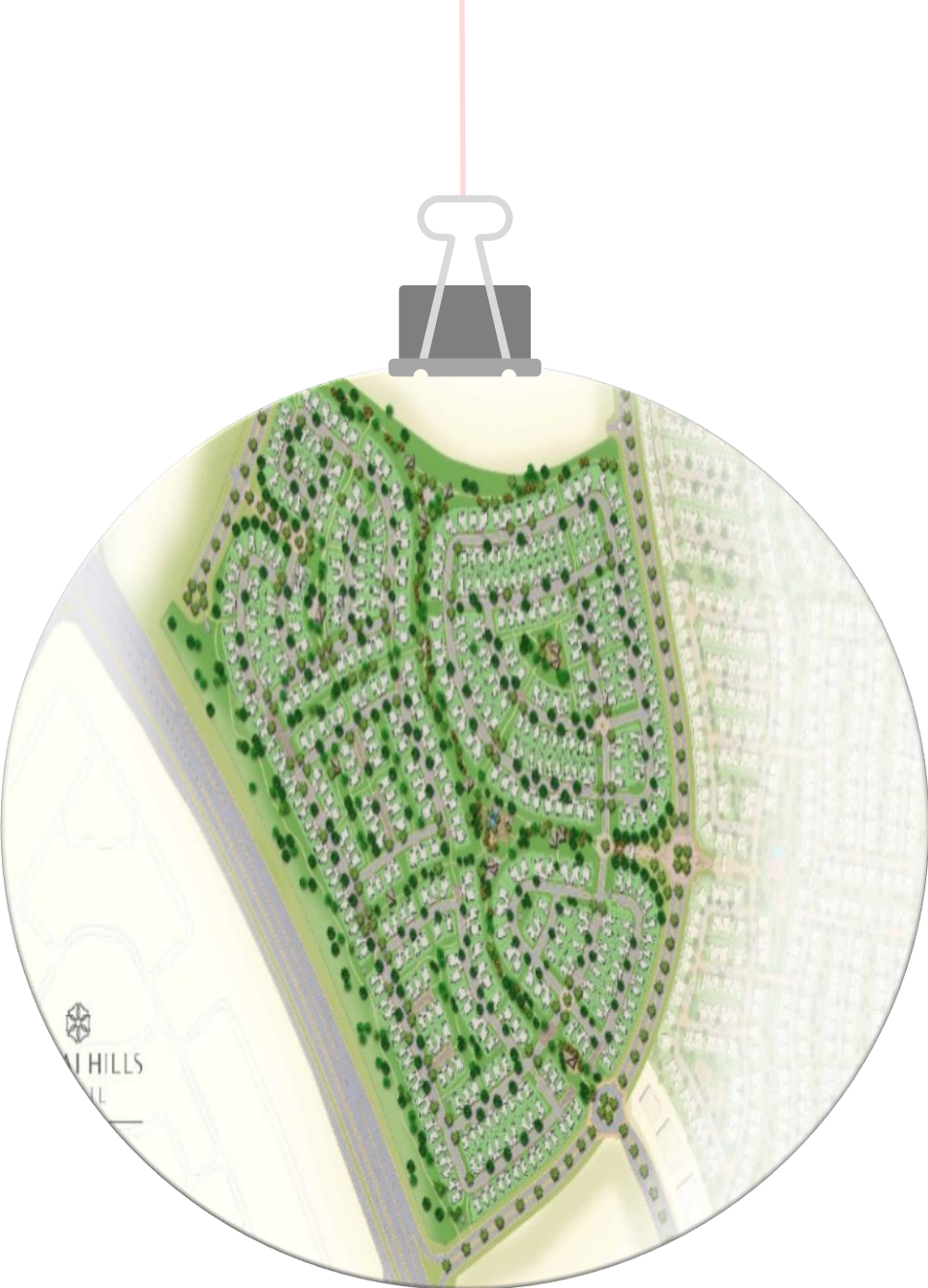
**Location** Dubai - UAE



**System Capacity** 6,785 Ton

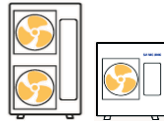


**Product Type** CAC





# Project References



**Project Name:** 171 Villa's Dubai



**Location** Dubai - UAE



**System Capacity** 3,780 HP



**Product Type** CAC



# Project References



**Project Name:** Belgravia-3



**Location** Dubai - UAE



**System Capacity** 1,304 Ton



**Product Type** DVM





# Project References



**Project Name:** G+17 Building Al Nahda



**Location** Dubai, UAE



**System Capacity** 1,400 Ton



**Product Type** DVM



# Project References



**Project Name:** Hill Side Villa's at JDE



**Location** Dubai, UAE



**System Capacity** 580 Ton



**Product Type** DVM





# Project References



**Project Name:** Al Warqa Gardens



**Location** Dubai, UAE



**System Capacity** 950 Ton



**Product Type** DVM



# Project References



**Project Name:** Living Legend 500 Villa



**Location** Dubai - UAE



**System Capacity** 11,000 Ton



**Product Type** CAC





# Project References



**Project Name:** Ajman One



**Location** Ajman – UAE



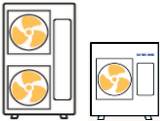
**System Capacity** 17,000 HP



**Product Type** DVM



# Project References



Project Name:

Season's Community



Location

Dubai - UAE



System Capacity

1,300 HP



Product Type

CAC





# Project References



**Project Name**

Palmera Tower - FSG



**Location**

Jidhafs, Bahrain



**System Capacity**

384 TR

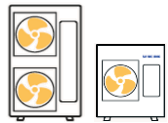


**Product Type**

CAC



# Project References



Project Name

Catamaran Tower



Location

Seef, Bahrain



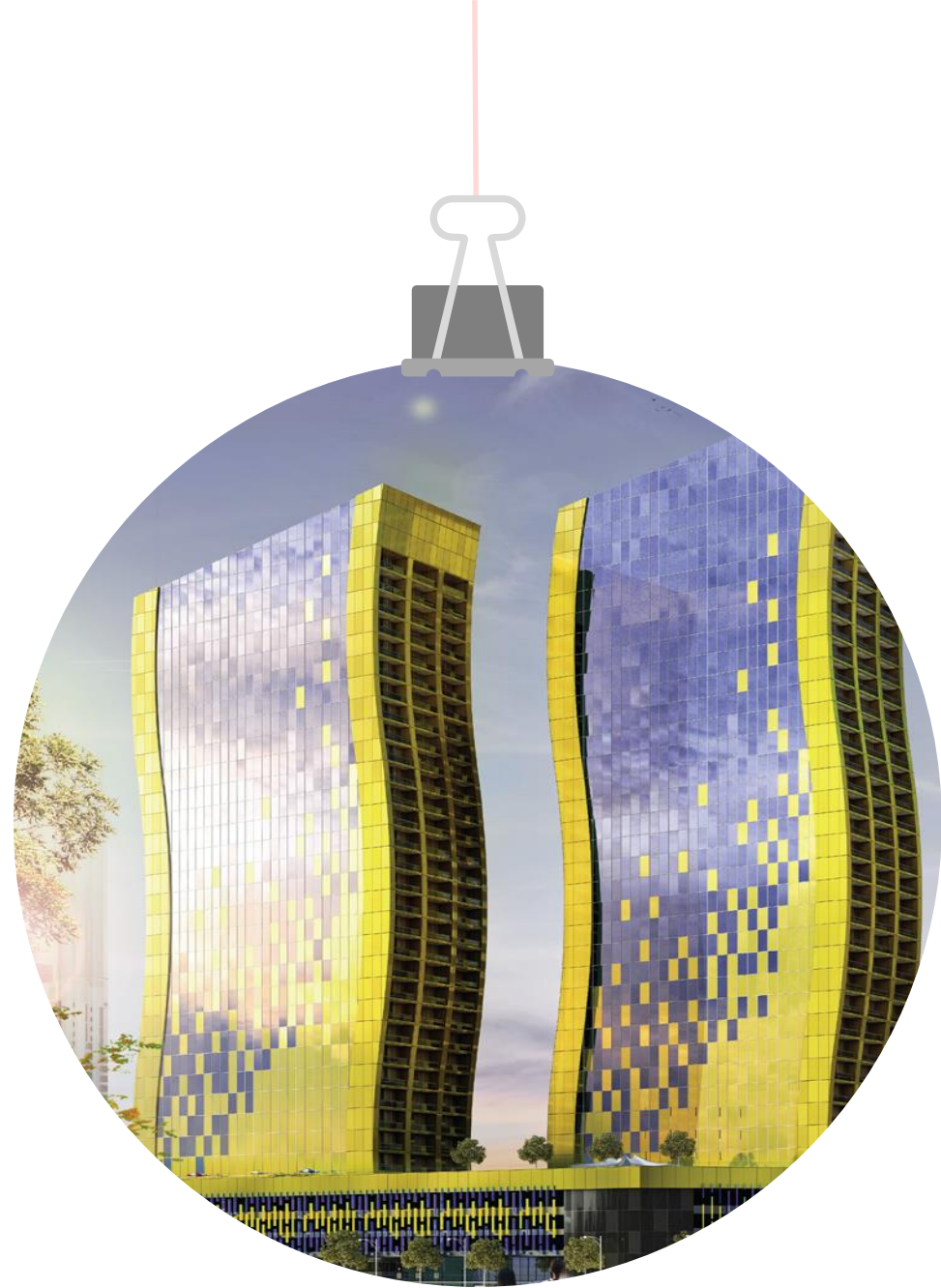
System Capacity

433 TR



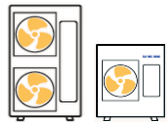
Product Type

CAC





# Project References



**Project Name** Sun-2 Tower



**Location** Hidd, Bahrain



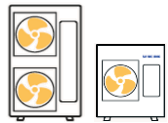
**System Capacity** 617 TR



**Product Type** CAC



# Project References



**Project Name**      Burj Khaadi G+42



**Location**              Hidd, Bahrain



**System Capacity**    1,800 TR



**Product Type**        CAC





# Project References



**Project Name:** Courtyard Residence



**Location** SEEF, Bahrain



**System Capacity** 811 TR



**Product Type** CAC



# Project References



**Project Name:** Reema Tower (G+32)



**Location** Dubai – UAE



**System Capacity** 1,090 HP

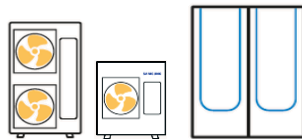


**Product Type** DVM





# Project References



**Project Name:** G+20 Building Al Majaz



**Location** Sharjah - UAE



**System Capacity** 1,250 Ton



**Product Type** DVM/CAC



# Project References



**Project Name:** PDO Taif Building



**Location** Muscat, Oman



**System Capacity** 950 Ton

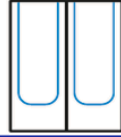


**Product Type** DVM





# Project References



**Project Name:** PDO Ras Al Hamra



**Location** Muscat, Oman



**System Capacity** 1,770 Ton



**Product Type** DVM



# Project References



**Project Name:** Le Mirage 5 Buildings



**Location** Doha, Qatar



**System Capacity** 2,727 Ton



**Product Type** DVM





# Project References



**Project Name:** 264 Villa's Ain Al Faida



**Location** Al Ain, UAE



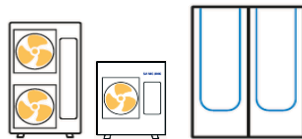
**System Capacity** 1,100 Ton



**Product Type** DVM



# Project References



Project Name:

Offices 1991 Al Ghubra



Location

Muscat, Oman



System Capacity

2,300 Ton



Product Type

DVM/CAC





**SAMSUNG**



# Contents

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1. About us
2. Business Divisions
3. Milestones
4. Global Recognition
5. Product Lineup
6. Product Features
7. Smart Solutions



# Samsung Gulf Electronics

SAMSUNG

**1** Regional Head Office

**10** Sales Distributors

**9** Service Providers

**1** Training Academy

**24h** Customer Service



# Business Divisions

SAMSUNG

## IT & Mobile



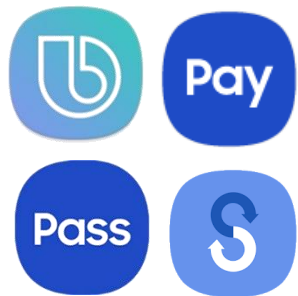
## Visual Display (TV Division)



## Consumer Electronics



## Mobile Communications



## Digital Signage



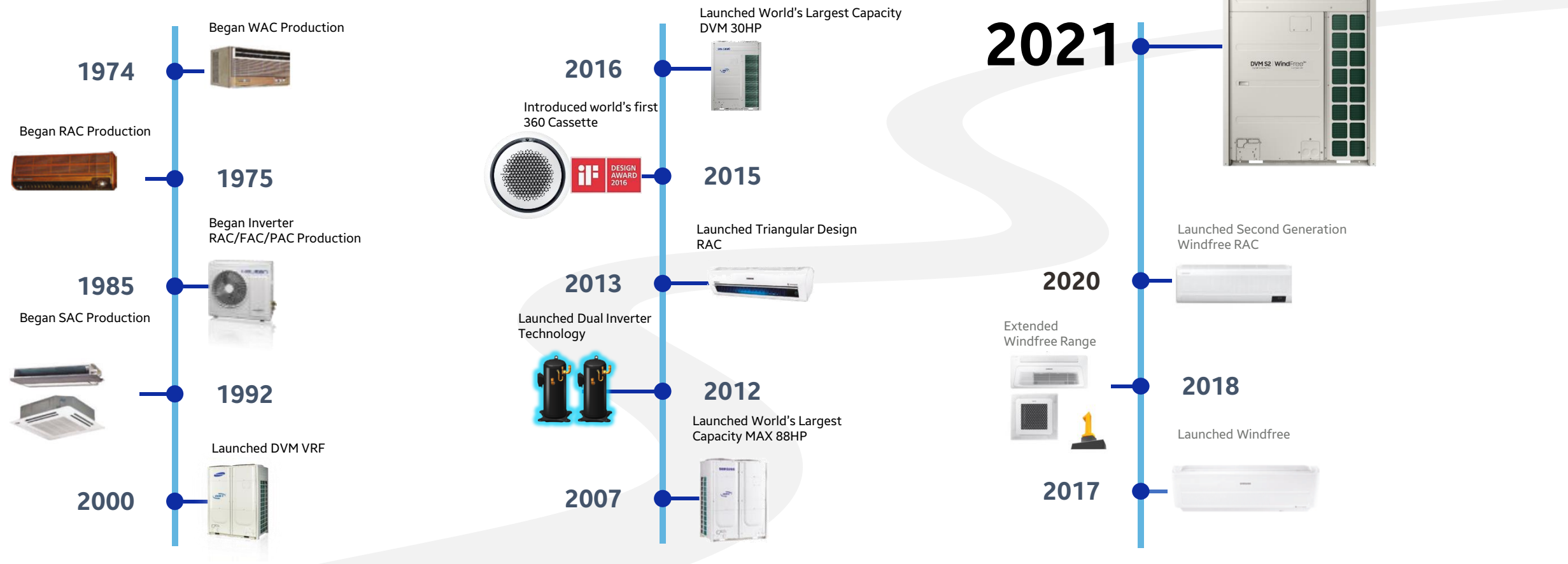
## System Air Conditioning





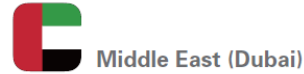
# Milestones

SAMSUNG



# Global Recognition

SAMSUNG



Insight Middle East and Asia\*

Best Industry Call Center

7<sup>th</sup>

Target Product & Service  
Call center sector

\*Professional service organization  
dedicated to customer interaction in  
the Middle East



The Winner of  
Dubai Quality Global Award 2021



Top 10 Global Brands since 2012



Ranked in Top 5



reddot design award



Most Admirable Brand





# Product Lineup

- DVM S2 – Product Lineup

2 Unique Chassis Designs

## DVM S2 | WindFree™

Digital Variable Multi Compatible

HP	8	10	12	14	16	18	20	22	24
Desert Series	 <p>930 mm</p> <p>765 mm</p> <p>1,695 mm</p>			 <p>1,295 mm</p> <p>765 mm</p> <p>1,695 mm</p>					
Shooter Series		 <p>930 mm</p> <p>765 mm</p> <p>1,695 mm</p>			 <p>1,295 mm</p> <p>765 mm</p> <p>1,695 mm</p>				

# Product Lineup









- DVM S2 Desert – Product Lineup

2 Unique Chassis Designs

Single Modules up to 20 HP – Space Saving

Wide Cooling Capacity Range – Up to 80 HP

**DVM S2 | WindFree™**  
Digital Variable Multi Compatible

8-10 HP	12-20 HP	22-30 HP	32-40 HP
			
42-50 HP	52-60 HP	62-70 HP	64-80 HP
			



# Product Lineup









- DVM S2 Shooter – Product Lineup

2 Unique Chassis Designs

Single Modules up to 24 HP – Space Saving

Wide Cooling Capacity Range – Up to 96 HP

**DVM S2 | WindFree™**  
Digital Variable Multi Compatible

8-12 HP	14-22 HP	24 HP	26-28 HP
			
30-44 HP	46 HP	48-66 HP	68-96 HP
			

# Product Lineup

## ● DVM Eco

2 Unique Chassis Designs



4-5-6 HP



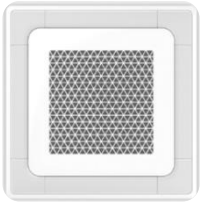







8-10 HP

- Highly Efficiency DC Inverter Compressor  
*Twin Rotary (4-5-6 HP) Scroll (8-10 HP)*
- Compact size
- Quiet Operation
- Wide Operation Range
- Heavy Anti corrosion Treatment
- Long Piping Limitation
- Refrigerant Cooled PCB
- Current Control



# Product Lineup

- Samsung offers a wide range of indoor units

Windfree 1-way cassette (1.7-7.1kW)		2-way cassette (5.6-7.1kW)		360 cassette (4.5-14.0kW)	
	Windfree 4-way cassette (4.5-14.0kW)		Windfree Mini 4-way (2.2-6.0kW)		Wall Mounted (2.2-9.3kW)
Slim Duct (2.2-14.0kW)		MSP Duct (2.2-16.0kW)		HSP (11.2-28.0kW)	
	Ceiling (5.4-14.0kW)		Console (2.2-5.6kW)		Floor Standing (3.6-18.0kW)

# Product Lineup

- **DVM Ducted Units**

Delivers increased airflow to broader areas with quiet and powerful cooling.

- **Flexible Design**

Features a compact flexible design that enables easy access to its parts

- **Static pressure Control**

External static pressure up to 140 Pa  
Can be changed via thermostat.

- **Quiet Operation**

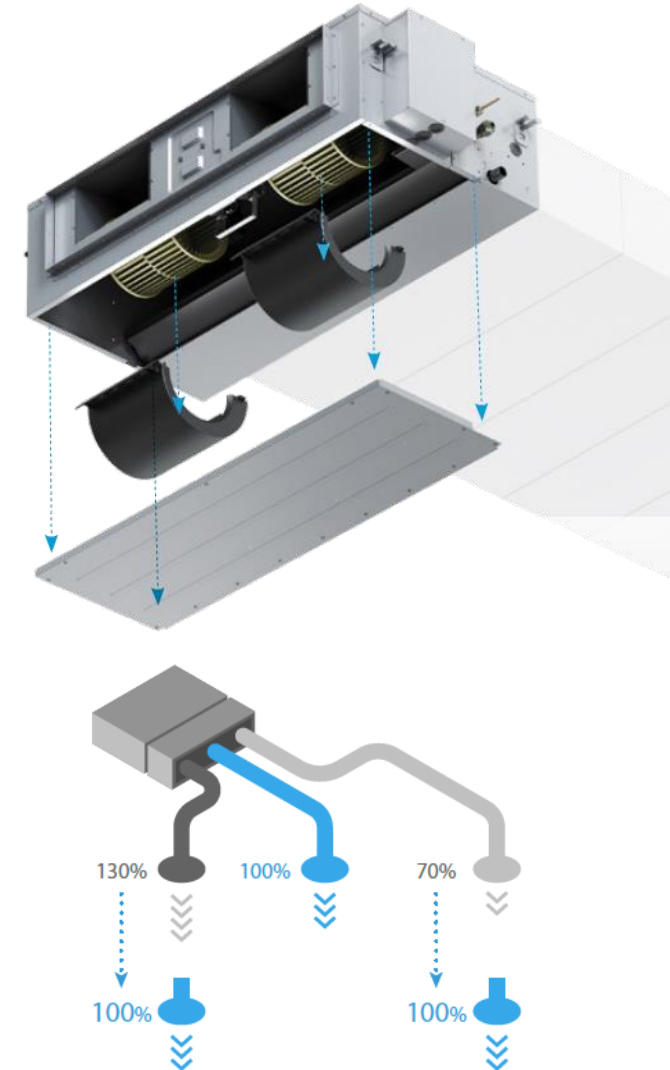
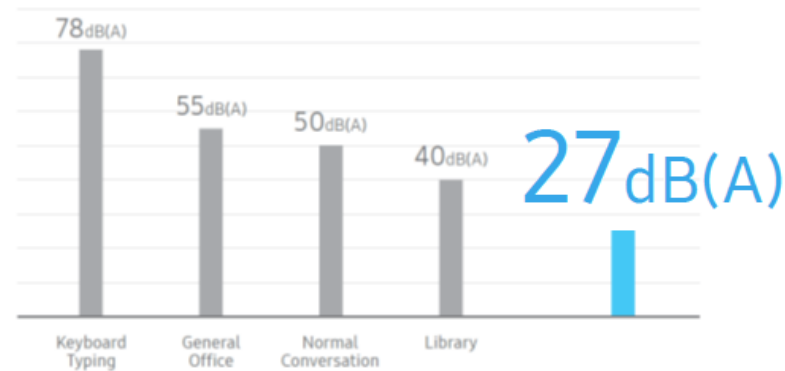
Low noise levels as low as 27 dB(A)

- **Easy maintenance**

Stress-free Filter Removal

- **Discharge Temperature Control**

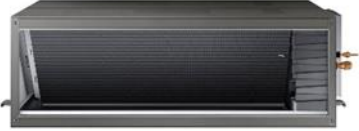

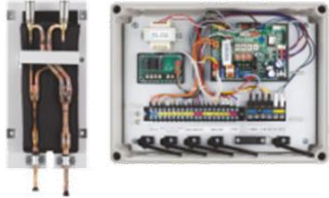
Discharge temperature control (8-25 °C)





# Product Lineup

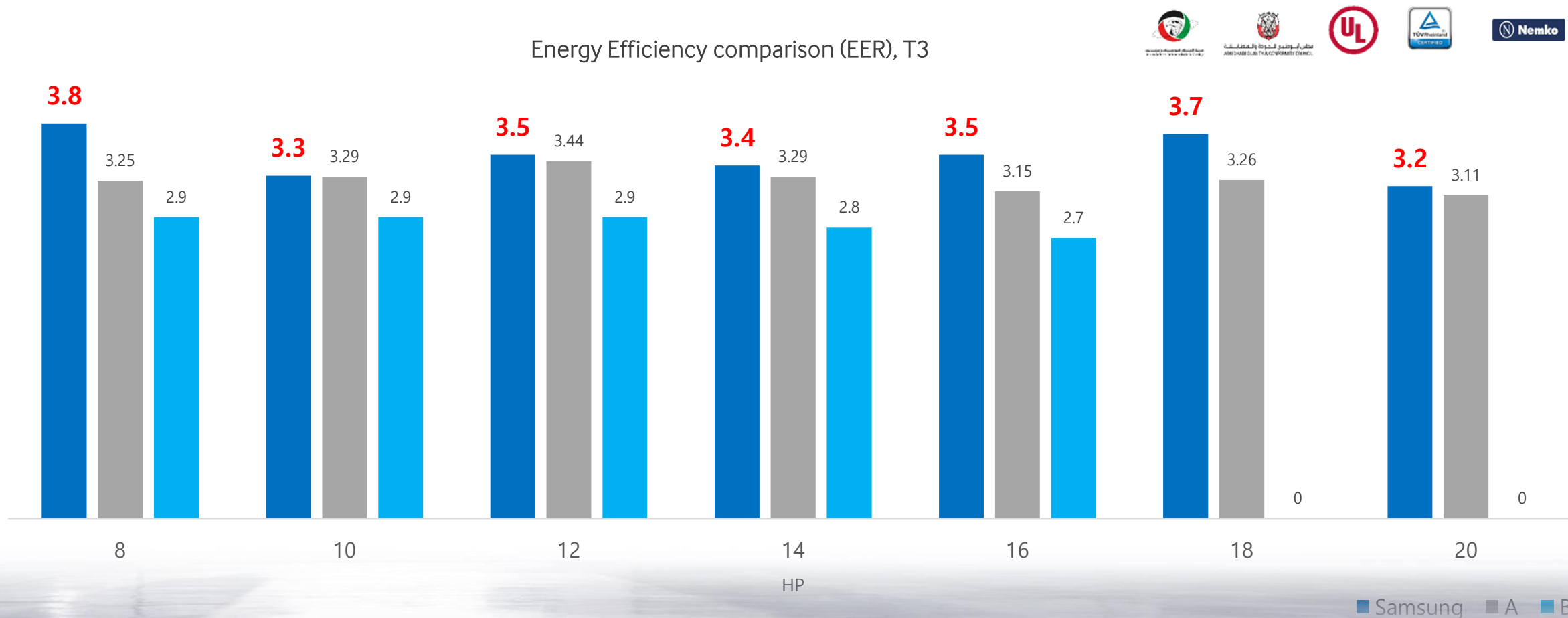
## • Complete Fresh Air Solutions

OAP	ERV/ERV Plus	AHU Kit
		
<ul style="list-style-type: none"> <li>• Available from capacities 14.0 up to 28.0 kW</li> <li>• High Efficiency BLDC Motor.</li> <li>• Low Noise Levels.</li> <li>• Auto ESP Adjustment with ARF Modes.</li> <li>• Indoor Discharge Temperature Control.</li> <li>• Wide ESP Range.</li> <li>• Operation up to 52 Deg C</li> </ul>	<ul style="list-style-type: none"> <li>• 2 models available with humidifier and cooling coil with capacities 14.0 and 28.0 kW.</li> <li>• 5 Models available 250 up to 1000 CMH Airflow Rate.</li> <li>• Extended range of External Static Pressure.</li> <li>• Optional CO2 Sensor available.</li> <li>• Smart auto bypass mode.</li> <li>• Can be interlocked with IDUs.</li> </ul>	<ul style="list-style-type: none"> <li>• Integration with 3rd party AHU's.</li> <li>• Available from 2.5 up to 40 HP.</li> <li>• IP54 Rating.</li> <li>• Simple BMS application.</li> <li>• Discharge air temperature control.</li> <li>• Can be interlocked with DVM indoor units/ OAP.</li> </ul>

# Top Class Energy Efficiency

- DVM S2 maintains highest EER values at T3 conditions due to its innovative design and technology.

Energy Efficiency comparison (EER), T3

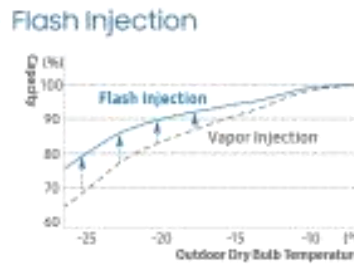
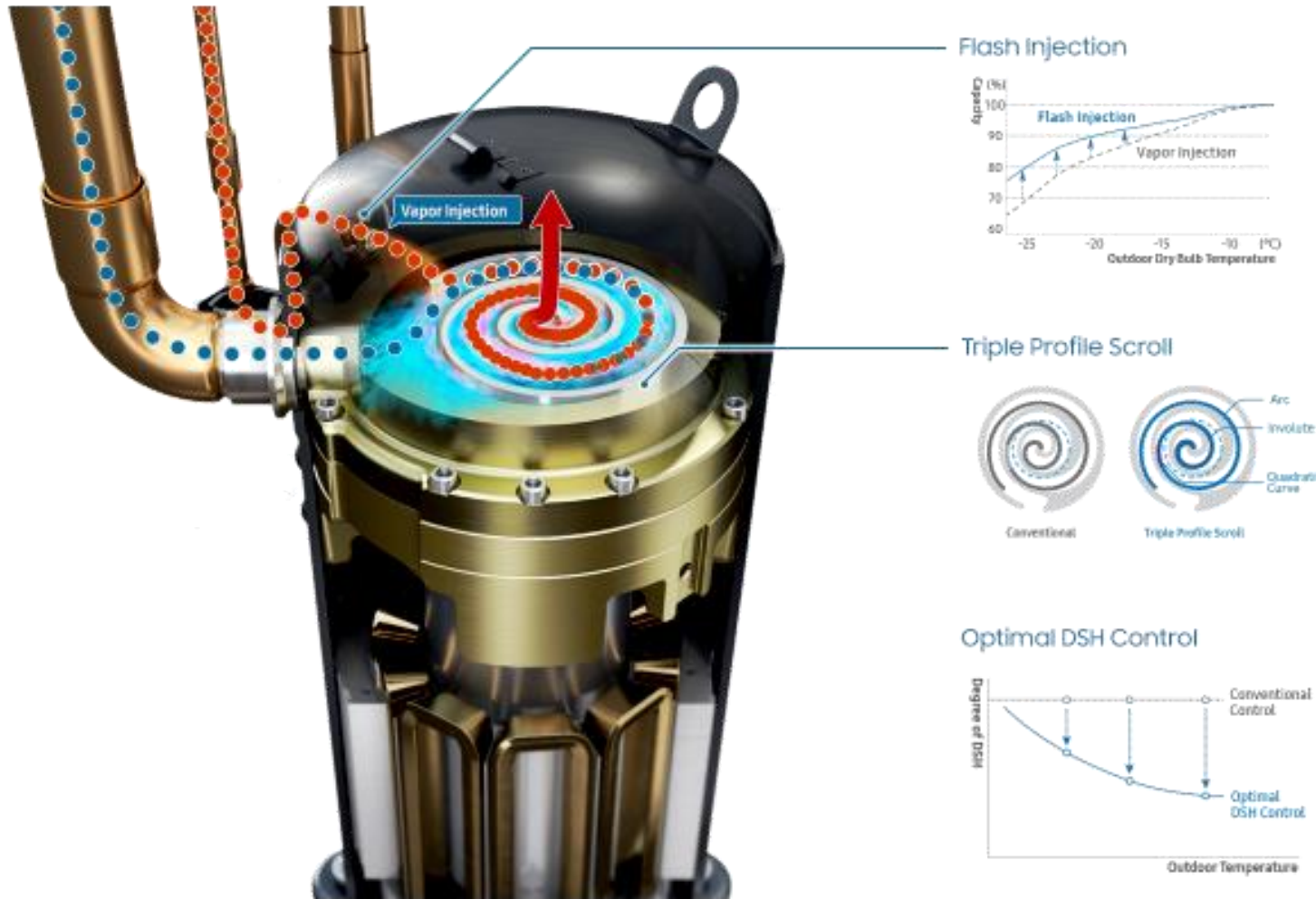




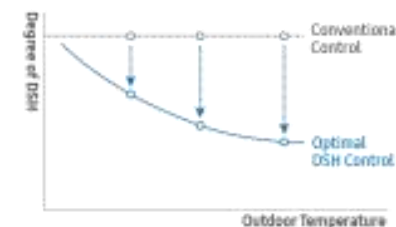
# High Efficiency

## ● Evolved AFI Inverter Driven Scroll Compressor

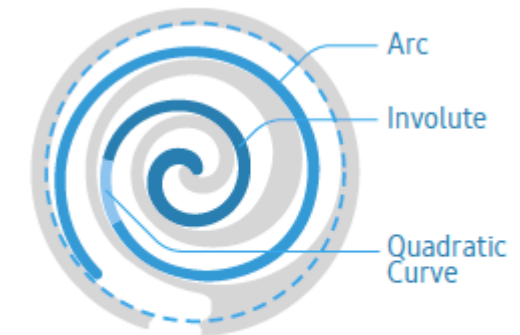
- Samsung's AFI compressor provides the world largest capacity. It combines Flash Injection technology with a strengthened Triple Profile Scroll for reinforced structure and efficient Optimal Discharge Superheat Control technology.



Optimal DSH Control



## Wide Operation Range 10 - 180 Hz



Triple Profile Scroll  
Advanced Flash Injection (90cc)



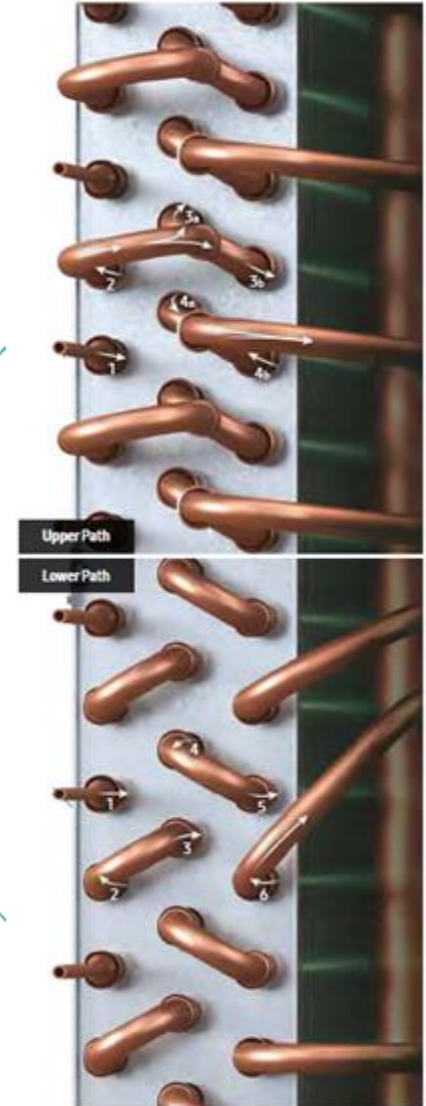
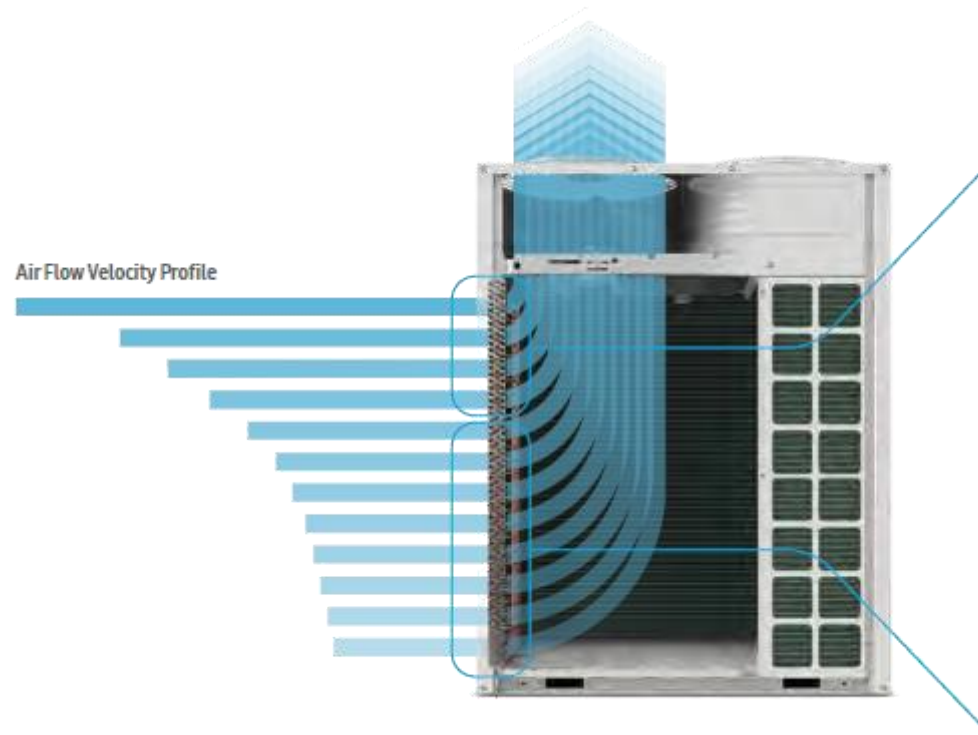
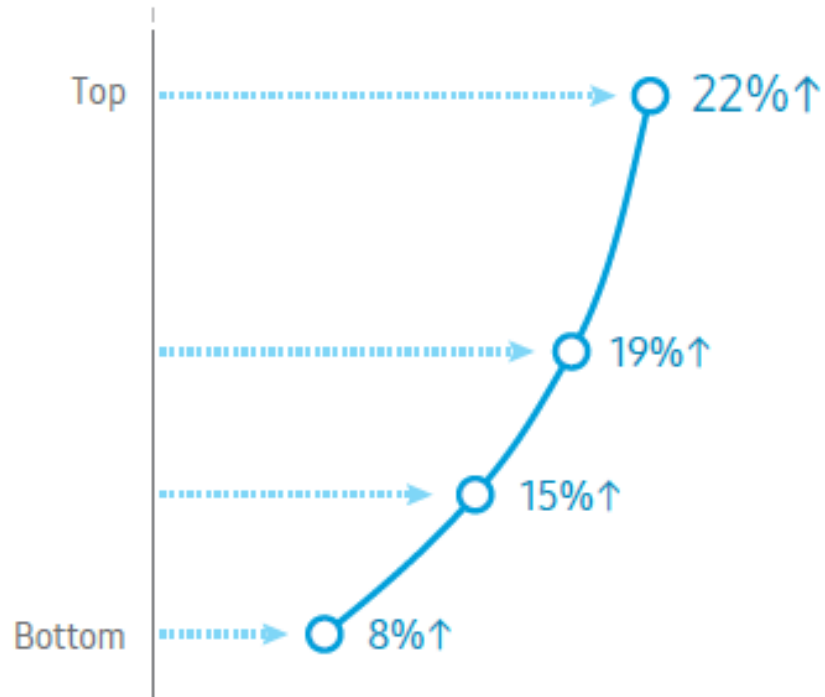
### Proven Reliability of the Samsung Advanced Flash Injection Compressor

The Advanced Flash Injection Compressor of the DVM S2 has been certified with a Reliability Mark (R-Mark), organized by the Korea Reliability Certification Center, Korean Reliability Society.

# High Efficiency

## ● Optimized Refrigerant Path Design

Samsung DVM S2 has an optimized refrigerant path\* that ensures the flow of the refrigerant matches the air flow speed, which optimizes the transference of heat. So, it performs more effectively and efficiently by balancing the exchange of energy.

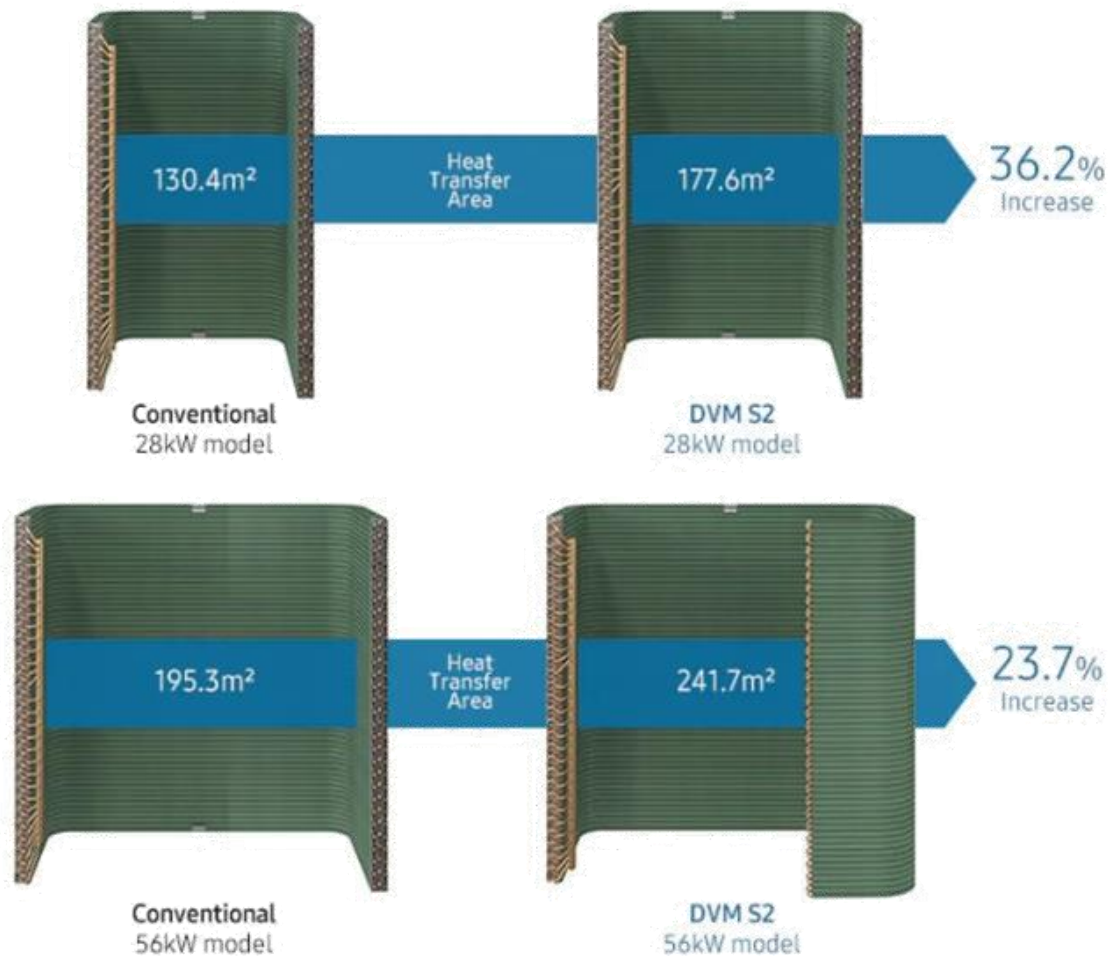
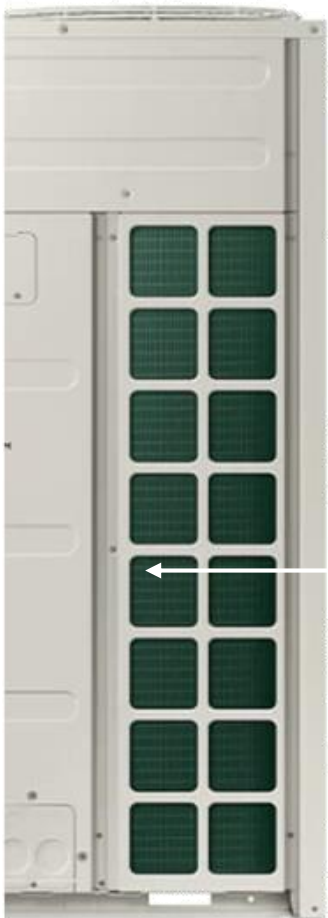




# High Efficiency

- Enlarged Heat Exchanger

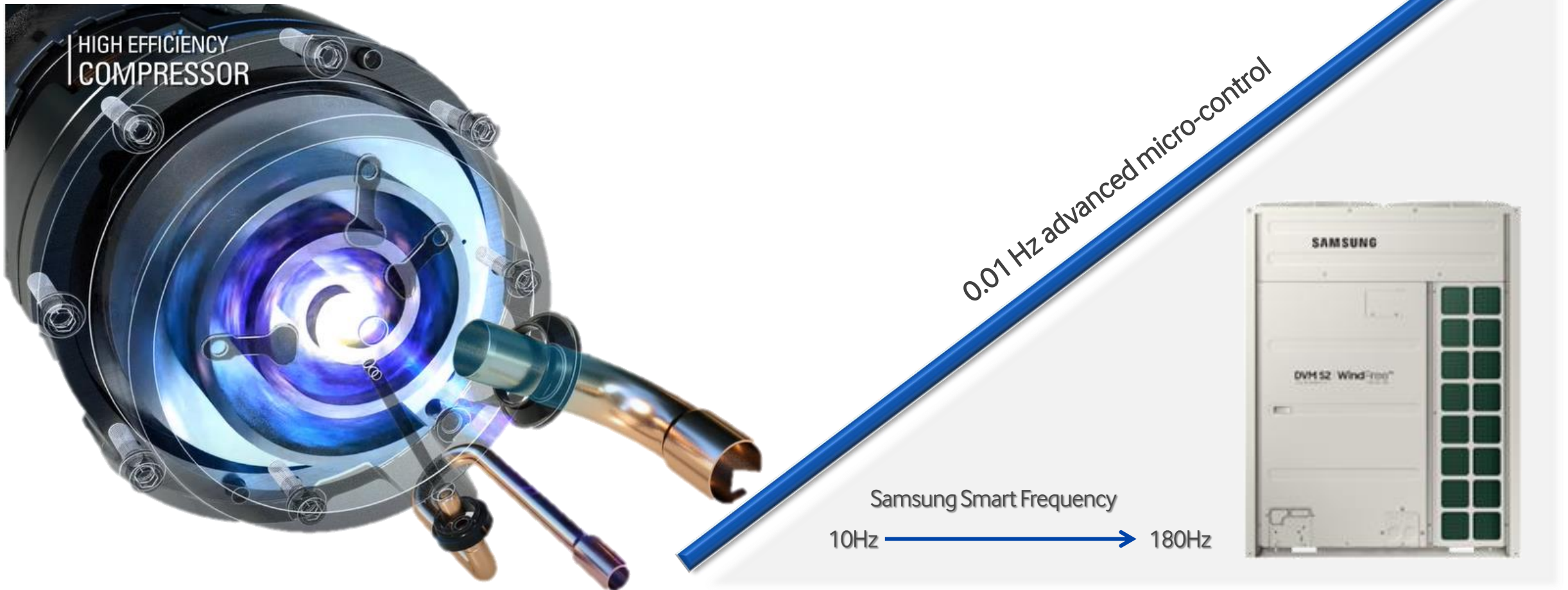
DVM S2 outdoor units are equipped with a 4-sided Heat Exchanger which has a larger surface area compared to conventional units for faster heat transfer and higher efficiency.



# Enhanced Comfort

- Precise Temperature Control

Samsung DVM S2 Samsung adopts a more linear control over changing speed of compressor at an increment of 0.01 Hz. This is why with Samsung Aircons, you can easily match your desired set point temperature.

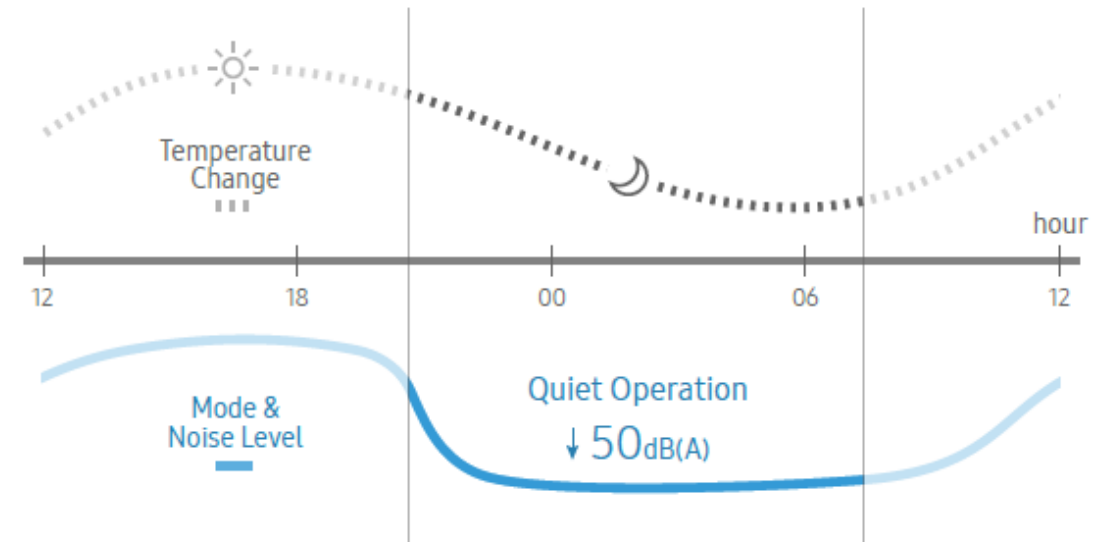
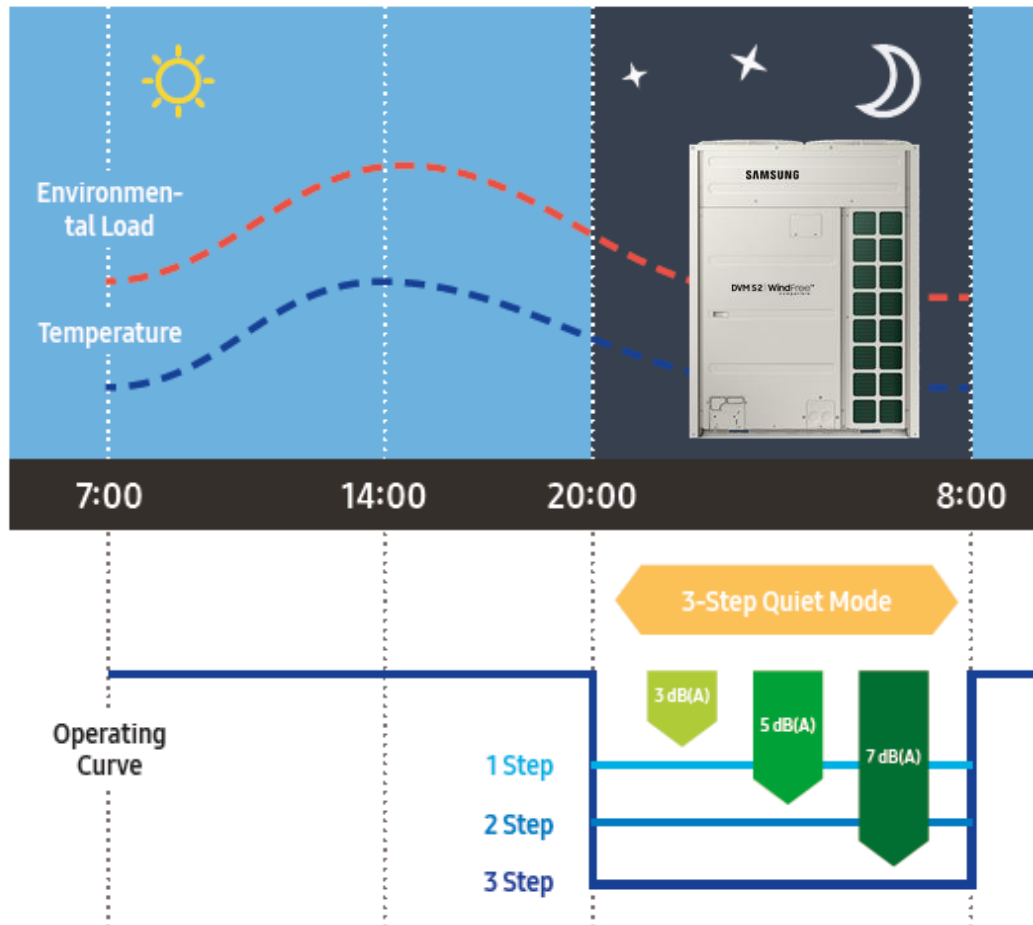




# Enhanced Comfort

## ● Silent Mode Control

A noise control system lowers the level of noise to below 50dB(A)\*, which is as quiet as a normal conversation. It has a timer and can be set to operate for up to 12 hours.



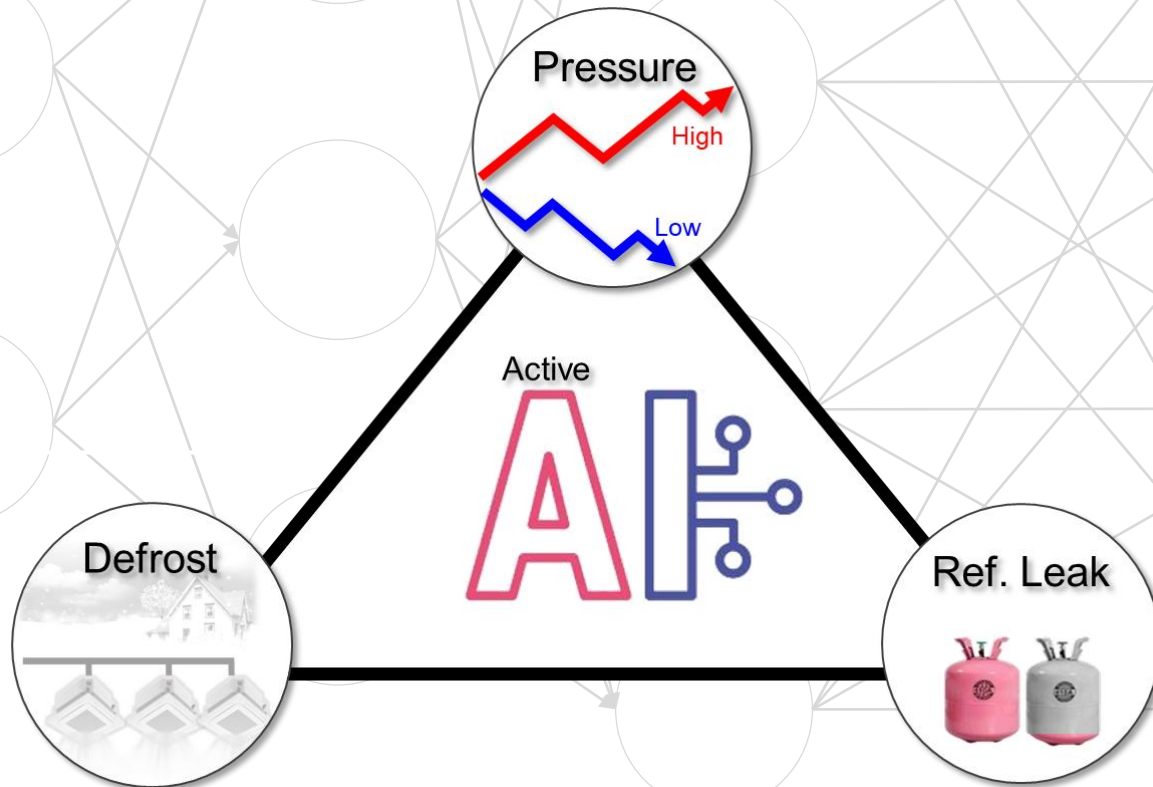
# Enhanced Comfort

## ● Active AI Control

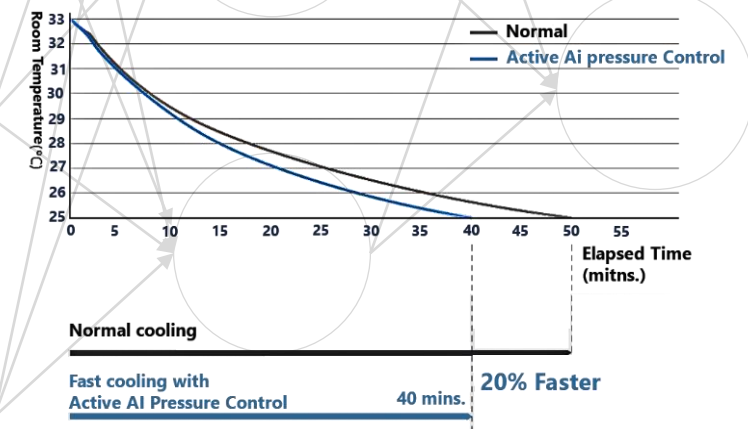
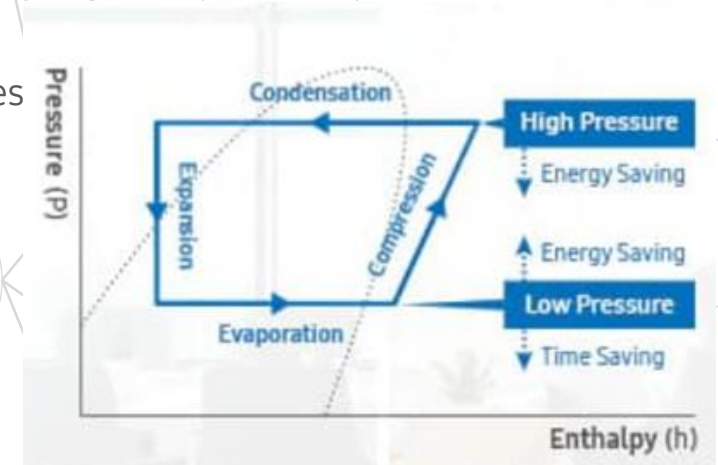
Samsung will be the leader of AI in VRF industry, the first start is DVM S2!

- Active AI could cool 20% faster than conventional control and reduced input power.

To supply an efficient operation and comfortable environment, Active AI controls high and low pressure operation and the surrounding environment (Both indoor and outdoor conditions).



Max 22 sensors inside



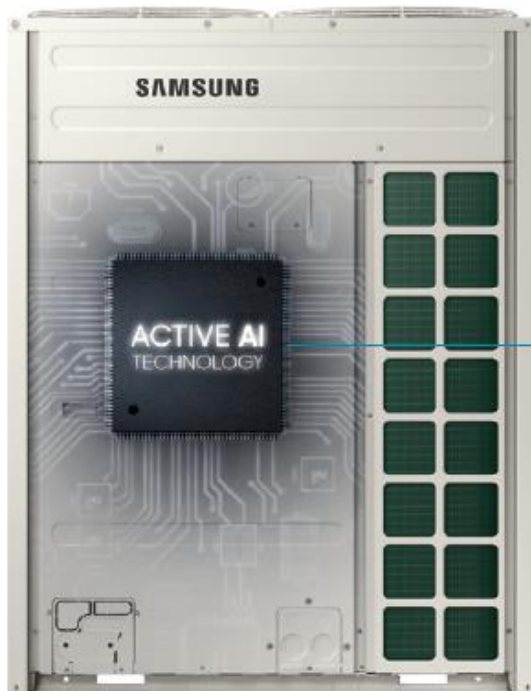


# High Reliability

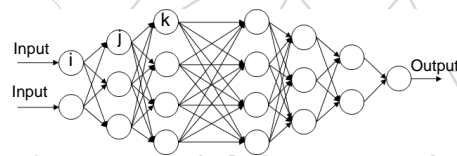
## ● Active AI Refrigerant Leak Detection

- DVM S2 analyzes the refrigerant amount in normal operation precisely using Active AI control. DVM S2 judges refrigerant amount with various operation data and delivers whether lack of refrigerant or leakage problem clearly to prevent more serious status in advance.

### Samsung DVM S2



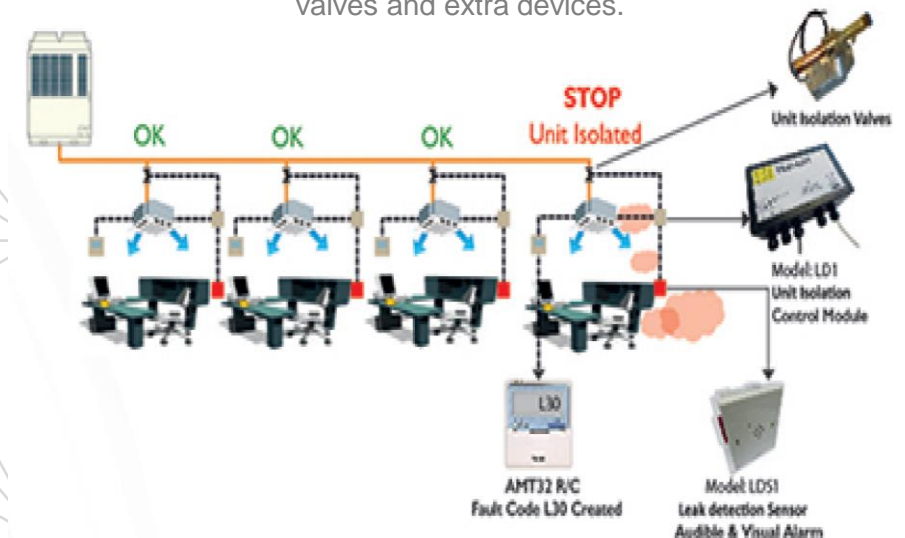
By Deep neural network (DNN) algorithm



Automatically detect on general operation and let you know there is a problem

### Other Brand

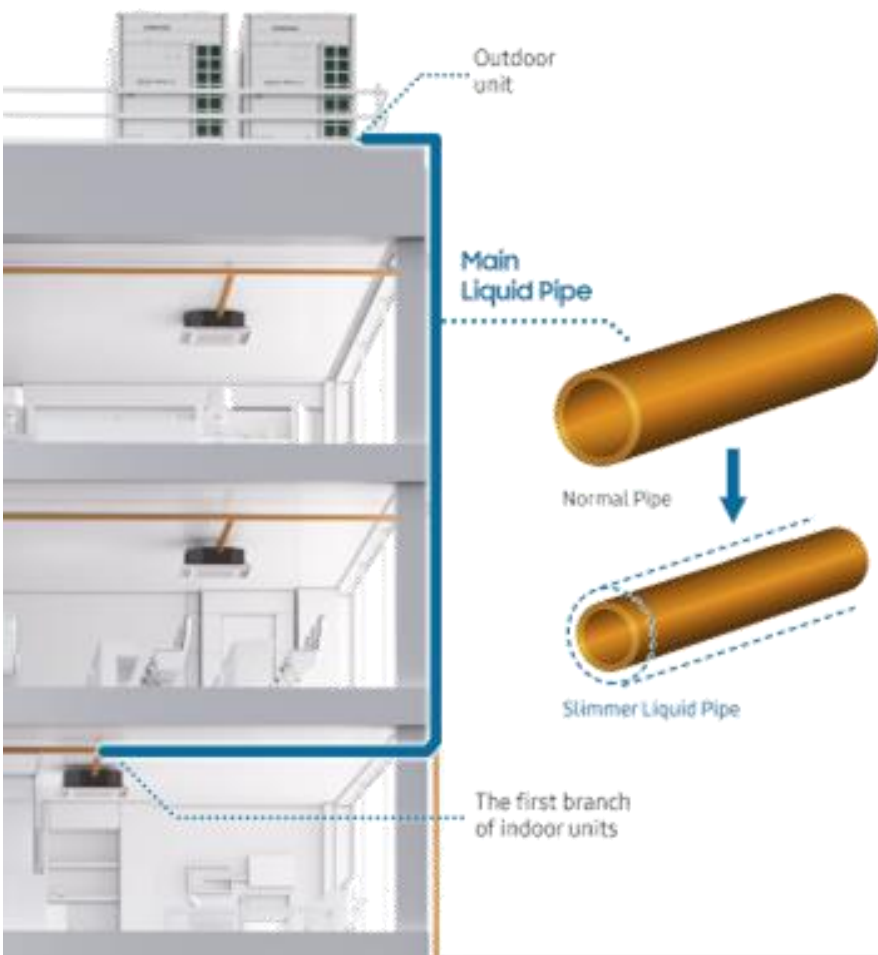
Refrigerant leak detection through additional valves and extra devices.



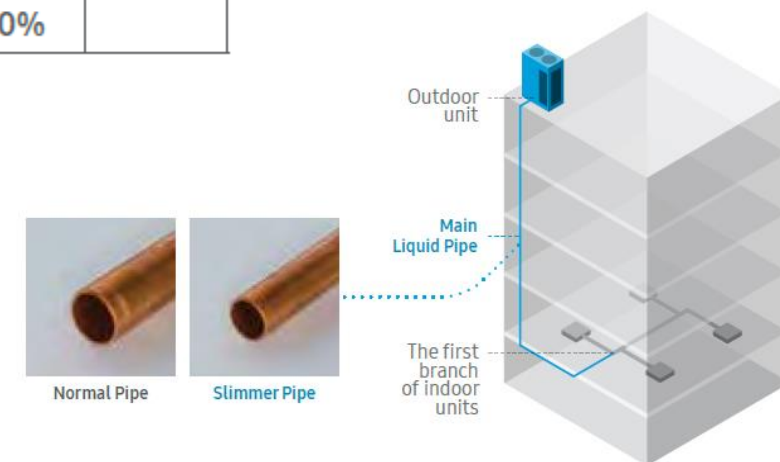
# Flexible Installation

## ● Slimmer Liquid Line

Thanks to Samsung's efficient dual sub cooling technology, you can now save cost in piping and refrigerant since a slimmer liquid pipe line can be used. It's also environmentally friendly and reduces CO2 emissions.



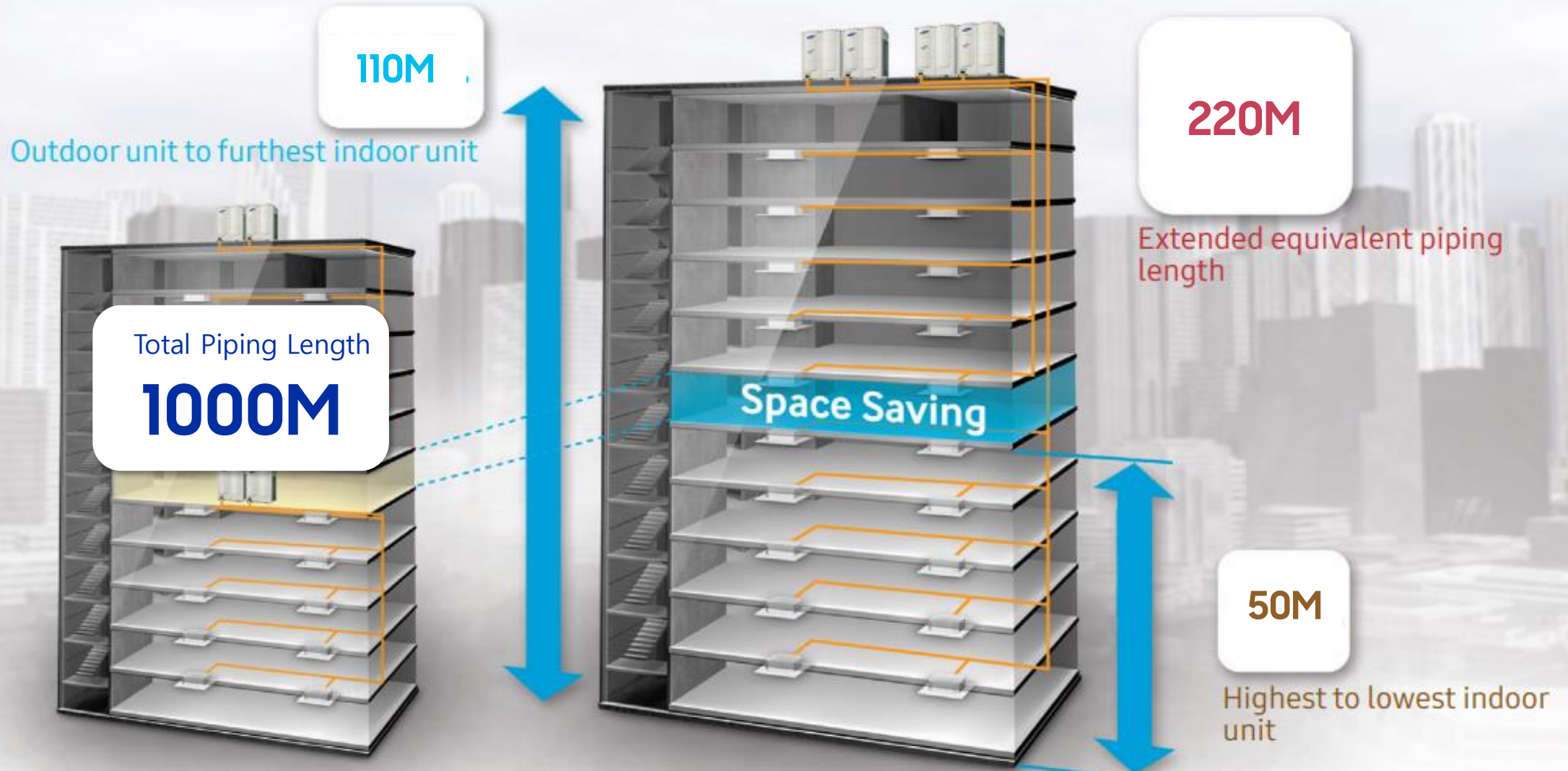
Pipe Diameter (mm)		Refrigerant to Supplement (g)		Refrigerant Reduction Ratio	
Normal	Slimmer	Normal	Slimmer		Average
9.52	N/A	60	N/A	-	-
12.71	9.52	125	80	36%	28%
15.88	12.71	180	130	28%	
19.05	15.88	270	195	28%	
22.22	19.05	350	280	20%	





# Flexible Installation

- Long Piping Limitations



# Flexible Installation

## ● Flexible Installation

- Thanks to aero dynamic design of the serration fan and compact components layout of DVM S2, it can overcome a external static pressure upto \*110 pa



Mechanical Floors



Underground machine room

110 Pa

110Pa



\* Please refer to the TDB for each model's ESP.



# High Durability

## ● Heavy Anti corrosion treatment

Samsung DVM S2 outdoor unit's Durafin™ Ultra has an anti-corrosive layer of epoxy acrylic and a hydrophilic layer of acrylic resin that reinforces its corrosion-resistance.

✓ ISO 9227, SST

**3,000hr** test passed

Salt Spray Test

✓ ISO 14993, CCT

**1,800hr** test passed

Cyclic Corrosion Test

✓ ISO 21207, Method B\*

**27 Years** test passed

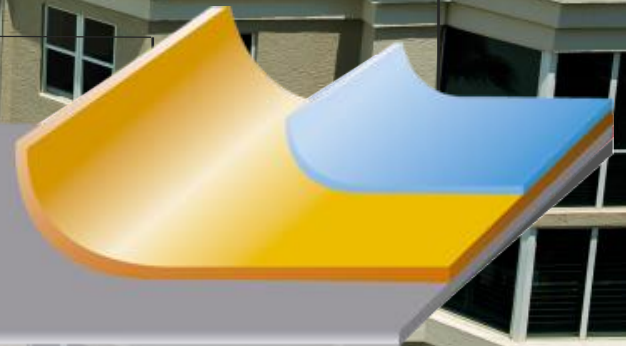
Salt contaminated condition and severe industrial or traffic environment Test



Hydrophilic Layer  
Acrylic Resin

Anticorrosive Layer  
Epoxy Acrylic

Raw aluminum  
material





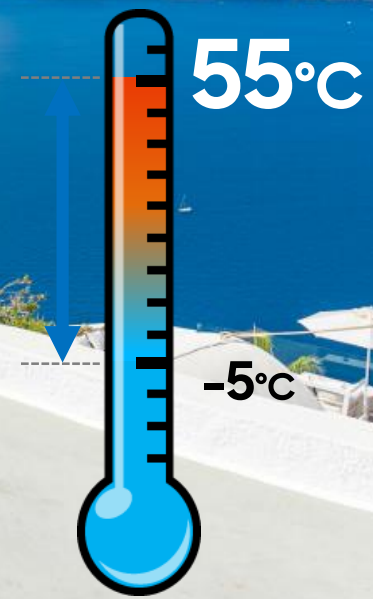
# High Durability

- Wide Temperature Operation Range

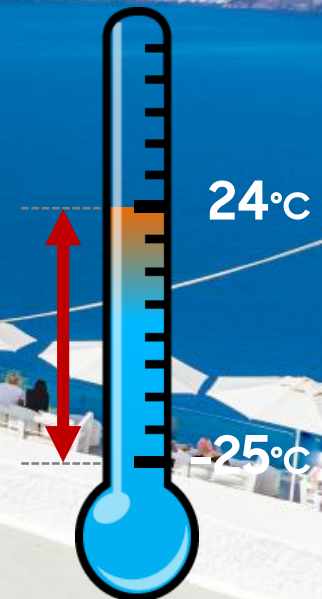
DVM S2 outdoor units can withstand harsh weather conditions and can provide cooling continuously up to 55 Degrees Celsius.



Cooling



Heating



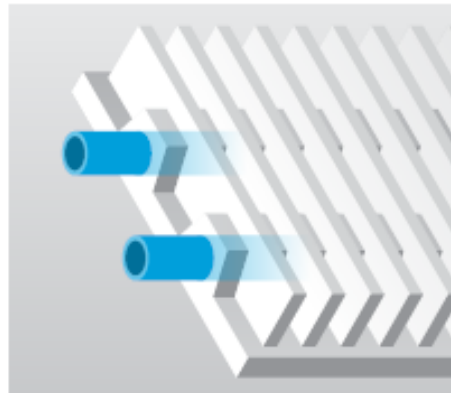
Wider Operation range



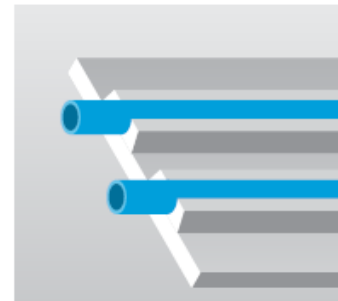
# High Durability

- Dual Cooling Heat Sink Technology

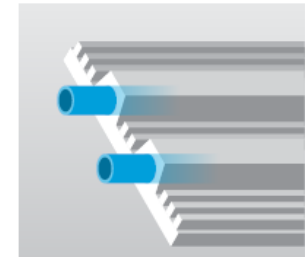
The PCB contains all electrical components for regulating refrigerant flow by adjusting the Compressor, Fan Motor, Expansion valve, etc. Because PCB dissipates Heat, it needs to be cooled down efficiency especially during high outdoor temperatures



3rd Generation  
Insert Diecasting Heat Sink\*



1st Generation  
Insert



2nd Generation  
Insert Diecasting

# Easy Service

## ● Refrigerant Pump Down and Out

Incase of unit service work, it is easy to recover the refrigerant in the system for high reliability and cost saving.

### Refrigerant Pump Down

Case One : Refrigerant collect to outdoor units



### Refrigerant Pump Out

Case Two : Refrigerant collect to indoor units





# Easy Service

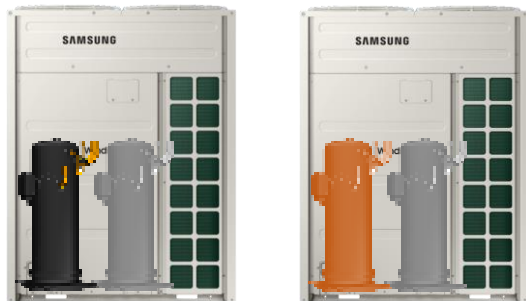
## • Auto Emergency Operation

### Module back-up technology

As one module break down, the rest of the modules in the same refrigeration system starts automatically for back up operation.

### Compressor back-up technology

As one compressor breaks down, the rest of the compressors in the same units starts up for back-up operation.



Running

Failed Start-up



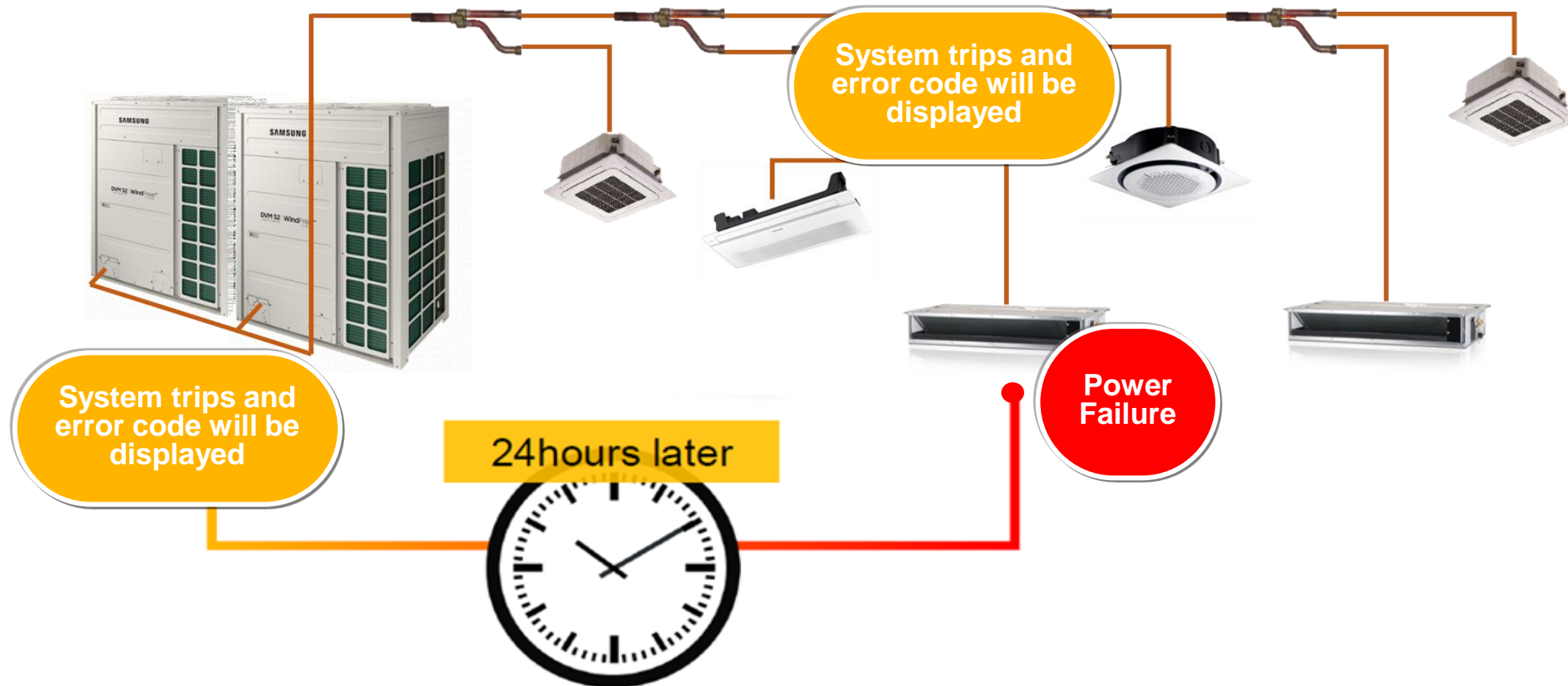
Emergency Operation	DVM S2	
Case 1		
Case 2		
Case 3		

# Easy Service

## • Auto Emergency Operation

In case if one particular IDU needs to be repaired, it can be powered off without any interruption to the rest of the system's operation.

- In case of indoor unit disconnection, the system will keep running.





# User Friendly Controllers

## • Complete Control Solutions

### Individual Controllers

Wireless Remote Controllers  
Wired Remote Controllers  
Touch Controllers



### WIFI Control

Control up to 16 Units



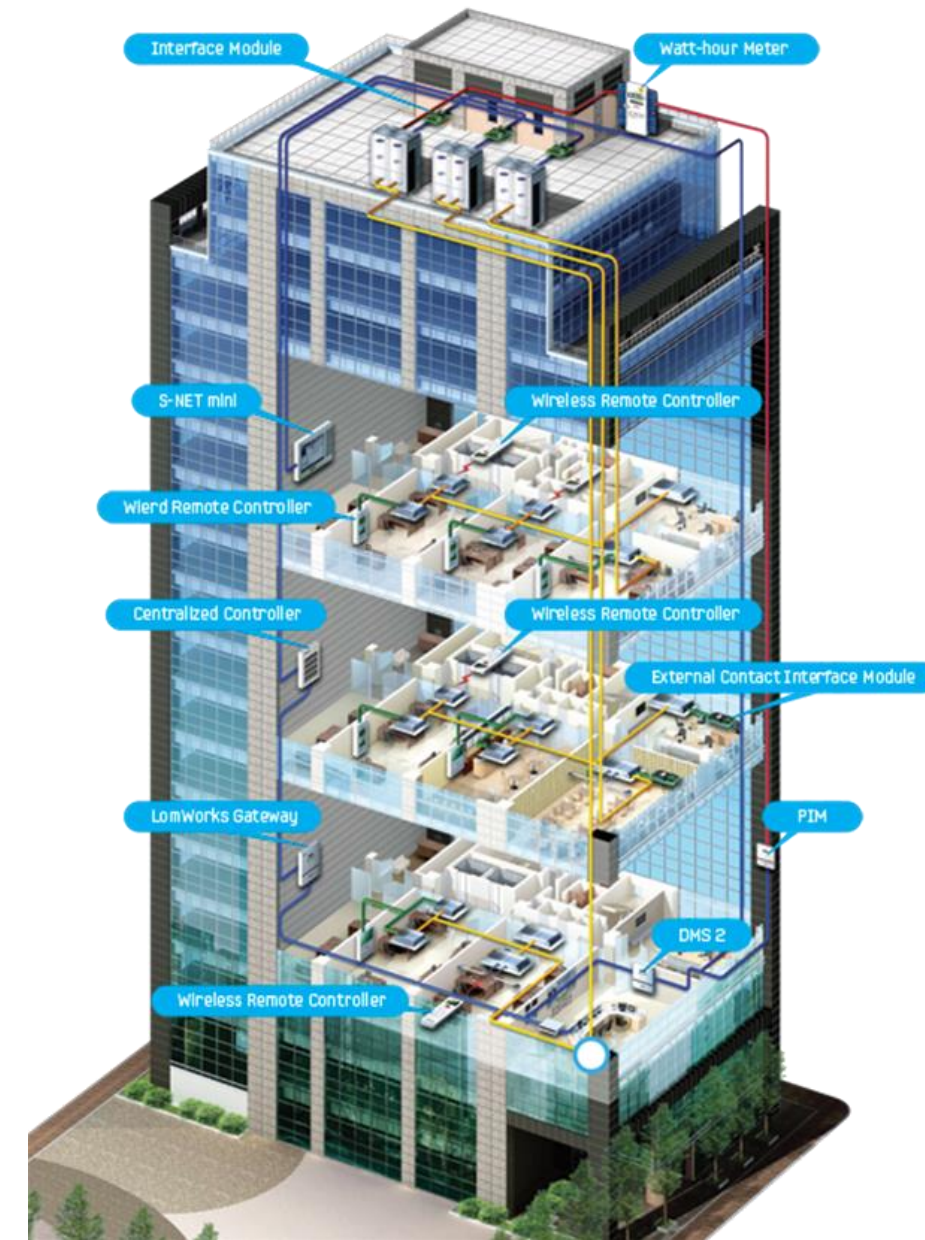
### Central Controllers

Touch Central Controllers  
On/Off Controller






### Building Management

Power Distribution  
Multi Tenant System  
DMS 2.5  
S Net Pro  
BMS Interfaces  
Modbus Interface Module



# Individual Controllers

## ● Complete Control Solutions

Wireless RC		<ul style="list-style-type: none"> <li>• Simple and sophisticated operations with a time setting.</li> <li>• Address and Option Setting</li> <li>• Filter replacement alarm reset</li> <li>• Zone Selection Control (Max 4 Zones)</li> </ul>
Wired RC		<ul style="list-style-type: none"> <li>• Various timer setup (On/Off/Weekly)</li> <li>• Built-in thermo temperature sensor.</li> <li>• Option Setting</li> <li>• Error Code Display</li> <li>• Individual or group control (Max 16 Units)</li> <li>• Filter replacement alarm display</li> </ul>
Premium Wired RC		<ul style="list-style-type: none"> <li>• Dual Set Point Function</li> <li>• Energy Consumption Monitoring</li> <li>• Embedded IR Receiver</li> <li>• Built In thermos temperature sensor</li> <li>• Air Quality Display</li> </ul>
Touch Wired RC		<ul style="list-style-type: none"> <li>• Sophisticated Touch Screen Controller</li> <li>• Built in room temperature sensor and IR Receiver</li> <li>• Filter Replacement alarm display</li> <li>• Scheduling</li> <li>• Error Code Display</li> <li>• Option Setting</li> </ul>






# Centralized Controllers

## ● Complete Control Solutions

WIFI Kit 2.0	 <p>WORKS WITH SmartThings</p>	<ul style="list-style-type: none"> <li>• Control up to 16 indoor units with a single Wi-Fi Kit</li> <li>• Mobile Remote control via SmartThings App</li> <li>• Error Display and History</li> <li>• Filter Cleaning Reminder</li> <li>• Daily and Weekly scheduling</li> <li>• Energy Consumption Monitoring (Daily, Weekly, Monthly)</li> <li>• Bixby Voice Control</li> <li>• Welcome Cooling</li> </ul>
Touch Centralized		<ul style="list-style-type: none"> <li>• Monitor and Control Maximum 128 Indoor Units</li> <li>• Monitor Indoor unit type and status using colored icons</li> <li>• Zone Management</li> <li>• Daily and Weekly Scheduling</li> <li>• Error code notification and history saving.</li> <li>• External device interlock (Emergency/Lock)</li> <li>• Filter Alarm Cleaning and Reset</li> <li>• SD card slot for data backup</li> </ul>
Centralized On/Off Controller		<ul style="list-style-type: none"> <li>• Max 16 group control (Maximum 128 Indoor Units)</li> <li>• Group and Individual Control</li> <li>• Wired/Wireless remote control restriction</li> <li>• Error Display</li> </ul>

# Advanced Centralized Controllers

## • Complete Control Solutions

DMS 2.5		<ul style="list-style-type: none"><li>• Individual / Zone management (Maximum 256 indoor units)</li><li>• Remote control via local/internet</li><li>• Accessible Level Management</li><li>• History Management</li><li>• Power Distribution</li><li>• Editable Control Logic</li><li>• External Device Interlocking</li></ul>
PIM		<ul style="list-style-type: none"><li>• Interface with pulse-type electricity meters for electricity billing system</li><li>• Max. 8 watt hour meters per PIM</li><li>• Total 8 PIM per DMS 2.5</li><li>• Error display (communication, out-of-range pulse width..)</li></ul>
SNET 3		<ul style="list-style-type: none"><li>• Control &amp; Monitoring of up to 4,096 indoor units Simple Timer On Off</li><li>• Up to 16 DMSs connection through the Ethernet</li><li>• Icon-based indoor unit display mode</li><li>• Graphical schedule settings</li></ul>

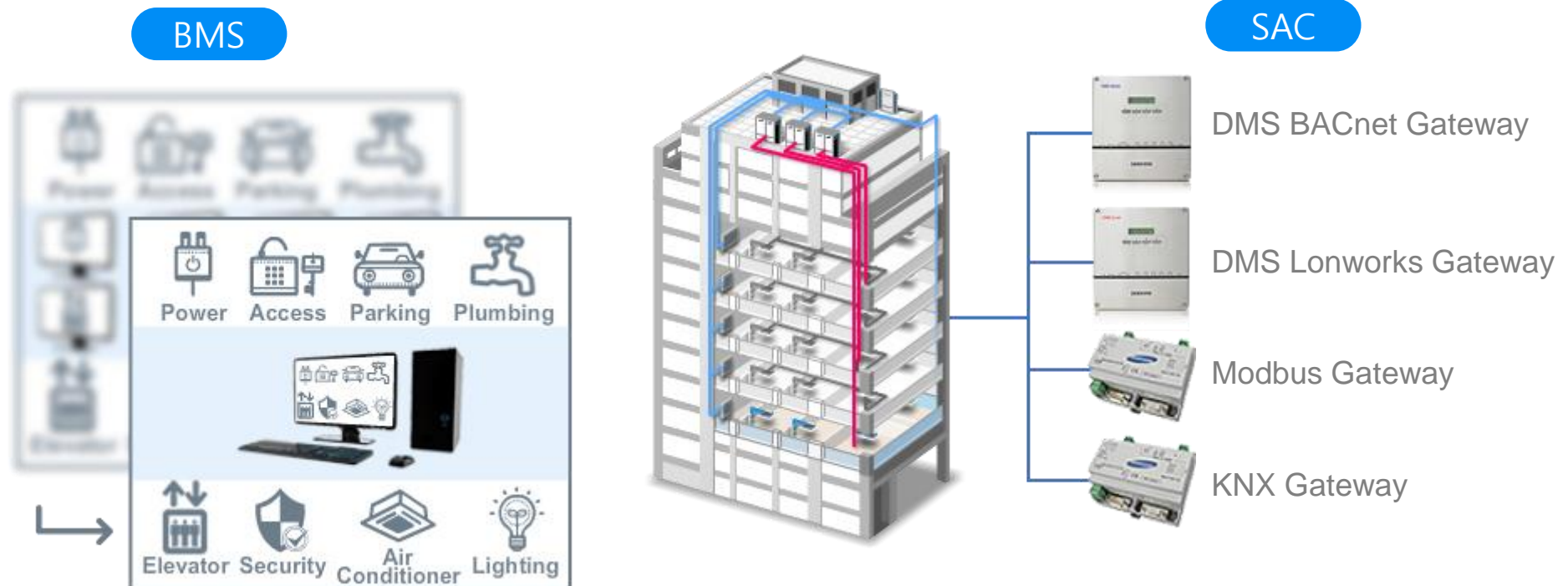


# BMS Integration

- Complete Control Solutions

## Building management system

An integrated control and management system on different company sub-system in a building



# Other Accessories

- Complete Control Solutions

Optional devices to provide various solutions  
for a customer's needs



Wireless signal receiver  
(MRK-A10N)



Operation mode selection switch  
(MCM-C200)



External room sensor  
(MRW-TA)



Compatible interface module  
(MIM-N01)



Thermostat Kit  
MCM-A200



External contact interface module  
(MIM-B14)



Multi Tenant Function Controller  
(MCM-C210N)



S-Converter  
(MIM-C02N)



A low-angle, upward-looking photograph of several modern skyscrapers with glass facades, reaching towards a blue sky with scattered white clouds. The perspective creates a sense of height and architectural grandeur. A semi-transparent dark blue rectangular box is centered over the image, containing white text. The box is framed by four blue L-shaped corner brackets at its corners.

Samsung System Air Conditioner,  
Well known for Best Performance,  
and Great Efficiency.

Future Air Conditioning Solution, we bring it to life.

Thank you

**SAMSUNG**