



"...if possible, make it better, and it's always possible!"

Subbarao Gavirneni
 President
 Klimak srl

ICONIC ROJECTS

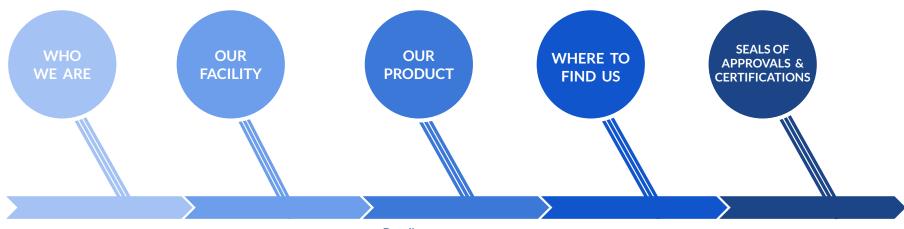












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COMPANY PROFILE

We specialize in double skinned AHUs & FCUs incorporating components exceeding international standards, in order

To ensure trouble-free operation with minimum maintenance during the life of the AHU.

KLIMAK engineering team, with more than 40 years of experience in AHU industry, study and custom-design the units for each application while giving special attention in the selection of materials for continuous operation no matter the climatic conditions.

- Name of company: KLIMAK srl ITALY
- Type of activity: Manufacturing of Double Skinned AHUs & FCUs
- Year established: 1989
- Workshop floor area: 14,000 m² (Covered); 10,000 m² (Open)
 150,000 ft² (Covered); 107,000 ft² (Open)

- AHU Selection: Computer Software (AHRI 430 & Eurovent)
 - AHU in Operation: In excess of 12,000 units
- FCUs in Operation: In excess of 10,000 units

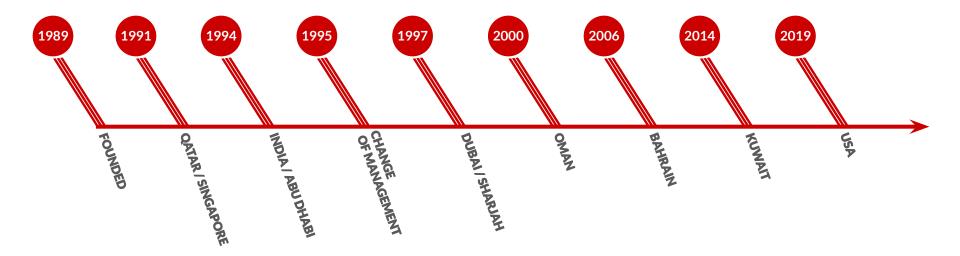




Klimak founded in 1989 has grown from humble beginnings into one of the finest manufacturer of custom air handling units, passionately engineering and precisely crafting them at its $14,000 \, \text{m}^2$ ($150,000 \, \text{ft}^2$) facility located near Venice, Italy.

Klimak's technical team, with over four decades of experience is ever searching to push design and performance boundaries.

The company is known for its consistency in quality and dedication to continuously improving manufacturing standards of AHUs and FCUs, delivering unparalleled value over their life cycle. Klimak stands tall in exceeding expectations of Developers and Consultants for many of their landmarks projects, resulting in repeat orders.





Subbarao Gavirneni

President and CEO of Klimak srl

Mr. Subbarao Gavirneni has been the President & CEO of Klimak for 25 years. He has dedicated his entire career to making breakthrough products in the industry of Air Handling Units in order to improve the standards of construction.

Background

During the 70s, after his Master's in engineering, specialized in Air Conditioning, Gavirneni began his career as an apprentice in India. Later he made his way as a junior engineer position in Qatar and was later promoted as the manager. But what brought him to Italy was the quality of craftsmanship. He knew that with his passion and experience combined with the Italian craftsmanship, he could really bring something innovative into the world of Air Handling Units.

Recognition

In 2008 Mr. Subbarao Gavirneni was conferred with *L'Onorificenza di Commendatore* (*Legion of Honor as a Commander*) by the President of The Italian Republic in recognition of individual contributions for the Italian industry. Mr. Gavirneni is one of the two to be given this rare honor in the vast Air Conditioning Sector in Italy.



LOCATION

We are located in Piazzola Sul Brenta near Venice in Italy.

1 head office& production plant

 $14,000 \text{ m}^2$ (150,000 ft²) of plant surface area

HEAD OFFICE & PRODUCTION PLANT

9, Via Guido Rossa, 35016 Piazzola sul Brenta - Italy Tel. +39 049 559 9452

E mail: klimakmail@klimak.com





OFFICE FACILITY











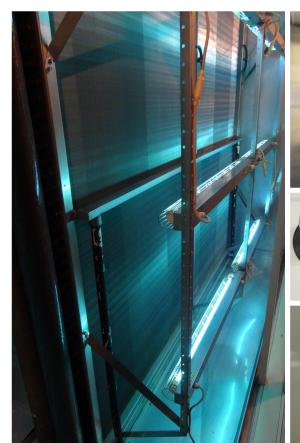
PRODUCTION FACILITY







KLIMAK STANDARD CONSTRUCTION DETAILS

















FINISHED PRODUCTS















FACTORY TESTING







INDEPENDENT LAB TESTING



TEST REPORT



Model Number:

Inlet Area:

Impeller Diameter:

Unit Type: Draw-through

Air Movement and Control Association International, Inc. 30 West University Drive, Arlington Heights, Illinois 60004-1893, U.S.A.

Test Number 34034-A1

Test Unit: Central Station Air Handling Unit Manufacturer: KLIMAK SRL (ITALY) - AHRI Trade Name: KCD-105 YMA-K-065 22.000 in.

Test Purpose: Date of Test: Witness: Personnel:

Contract Test 09/28/2017 KLIMAK SRL (ITALY) - AHRI

29.39 in. Hg Unit System:

Outlet Area: 26.090 ft² Air Handling Unit Classifications

Application Type: Indoor

Fan Type: Airfoil

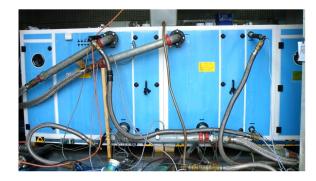
Test Method per ANSI / AMCA Standard 210-16, Figure 12 Setup, Installation Type A

Comments: Unit tested with AMCA supplied outlet duct.









SITE INSTALLATIONS





Klimak ensures that their equipment withstands aggressive ambient conditions and is relatively maintenance free.
Klimak has an established policy of deputing the technicians with first hand knowledge, should the need arise in the unlikely event, to step in and provide all the necessary assistance at a short notice.







SITE INSTALLATIONS















Introducing



Our 100% Washdown Units for healthcare applications



Raising the industry standards through continuous innovation

- 100% Washdown for sterilization
- Certified for Hygienic applications & IAQ standards
- Custom confirgurations available as required







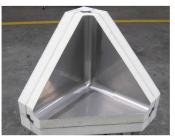
The dinovi Hospital Grade Air Handling Units are the latest innovation by Klimak to meet the stringent sterilization requirements of today's health care facilities.

Featuring the state of the art "100% Washdown" facility, the dinovi units are custom designed to meet desired psychometric conditions ensuring high IAQ standards.

The **dinovi** units offer energy efficient options, contributing to savings and points to LEED Certification and Green Building initiatives.









The **dinovi** Air Handling Units are configured with components such as but not limited to:

- Airfoil Aluminum Dampers with powder coating
- Staged filteration up to HEPA quality
- Cooling and Heating Coils with E-Coated finish
- IAQ drains meet ASHRAE Standard 62.1, Chapter 5a
- UV Lamps
- Humidification Systems
- Fans for various pressure requirements
- Alternately, Fan Arrays with direct drive EC motors
- Airflow monitoring stations.

The **dinovi** air handling unit is constructed of

- R-20 Casing
- Washdown chambers made of 304/316 stainless steel
- Each unit comes with hygienic certification in accordance with DIN 1946 Part 4: 2008
- In-swing / Out-swing hinged access doors to open against the pressure
- Airtight panel and door seals to withstand 8" +ve or -ve internal pressures
- PVC sleeved airtight insulation around the coil connections
- Stainless steel drain lines.



CERTIFICATE

Permission to use the test mark

VOLUNTARY TEST OF HYGIENE REQUIREMENTS TESTED HYGIENE SUITABILITY OF AIR HANDLING UNITS

TÜV NORD Systems GmbH & Co. KG, Hamburg, Germany, hereby confirms that the Air Handling Unit in Hygienic Version of the range

"KCD"

conforms to the requirements set by TÜV NORD Systems GmbH & Co. KG.

KLIMAK srl, Piazzola sul Brenta (PD), Italy,

is therefore granted the right to use the test mark shown below in connection with the above-mentioned product.

TÜV NORD Systems GmbH & Co. KG

Expert of Testing Laboratory for Ventilation, Air-Conditioning and Refrigeration



Essen, 21 March 2016



dinevi PRODUCT HIGHLIGHTS



dinevi PRODUCT HIGHLIGHTS

The improved double wall foam injected R-20 casing is a state of the art design with powder coated extruded aluminum thermal-break corner frame.

The wall, floor and roof panels are encased in a custom designed aluminum and pvc combination extrusion for a perfect fit with thermal break.

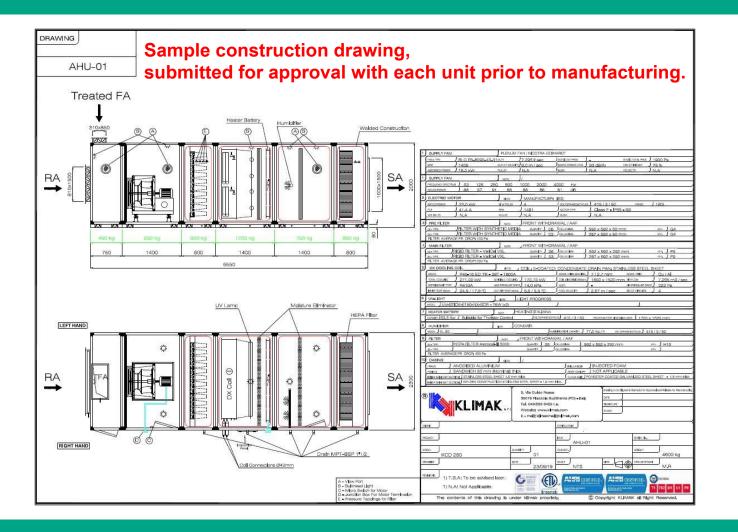
The unique inswing and outswing door design incorporates a dual seal gasket that fits within the extrusion for high pressure applications.

Each door assembly in the **dinovi** air handlers comes standard with high pressure rated porthole window as well as LED interior lighting.

Additional components such as Energy recovery, Glycol Run Around coils Heat Pipe are all available.





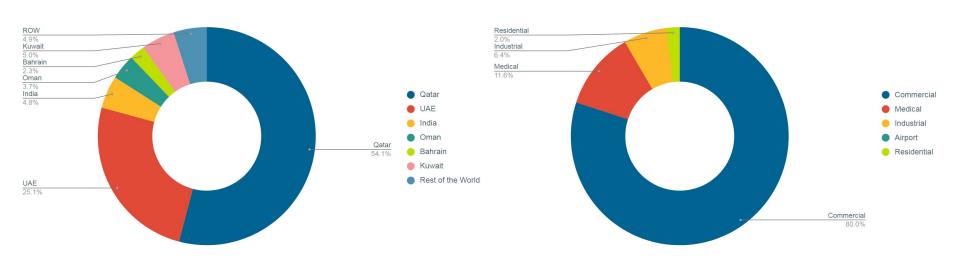




PROJECTS AROUND THE WORLD



Klimak has supplied in excess of **13,000** Double Skinned AHUs to various countries in Asia, Africa and Europe, for demanding applications in Hospitals, Airports, and Commercial Centers.



LANDMARK PROJECTS





HITEC City (Hyderabad - 1994)



Sheikh Khalifa Medical City (Abu Dhabi - 1995)



Emirates Towers (Dubai - 1998)



WAFI (Dubai - 2002)



Bridge Arts & Science (Doha - 2004)



Emirates Hanger (Dubai - 2006)



Mall of the Emirates (Dubai - 2007)



Dubai Flower Center (Dubai - 2007)



Old Town Commercial Island (Dubai - 2008)



Burj Khalifa (Dubai - 2009)

LANDMARK PROJECTS





Ferrari Experience (Abu Dhabi - 2009)



Abu Dhabi Airport Tower (Abu Dhabi - 2010)



Hamad International Airport (Doha - 2011)



Sidra Hospital (Doha - 2012)



Hamad Medical City (Doha - 2013)



Qatar Petroleum District (Doha - 2014)



Oman Convention Center (Muscat - 2014)



Khalifa Stadium (Doha - 2016)



Wakrah Stadium (Doha - 2019)



Oman Museum (Nizwa - 2019)

EXHIBITIONS











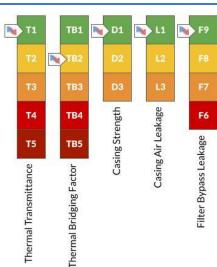
UNPARALLELED CERTIFICATIONS



Klimak Certifications represents an added guarantee of professionalism and quality.



- AHRI Standard 430 Performance Rating of Central Station Air-Handling Units Supply Fans
- ANSI/UL 1995 ETL Listed for the safety standard
- DIN EN 1886:2009 Mechanical Performance of the AHU casing
- EN 13053 Rating and Performance of AHU Components and Sections
- DIN 1946 Part 4: 2008 / VDI 6022 Part 1: 2011
- ISO 9001:2008 Quality management system for the design and production of AHUs and FCU:
- Furovent Under Process





























APPRECIATION LETTERS











Ref.: JN/07/SPD-002

31 July 2018

TO WHOM IT MAY CONCERN

This serves to confirm that Mrk.Klimak, manufacturers of Air Handling & Fan Coil Units has worked on the Sidra Medical and Research Center Mega Project, designed to operate as an ALL-DIGTAL (nearly) paperiess and filtre less environment where information, impegs, and clinical know-how are all connected and its systems are highly adoptable to future technologies and growth. The facility provides patients with throughout the recision.

As the Specialist to the Major Mechanical and Electrical subcontractor, Klimak have successfully supplied, installed and commissioned in excesses of 350 no. AHU's and 250 no. Fan Coli units to the project.

Klimak has proven to have a technical team that can manage the full cycle from inception of the Project, through design and unit selections, to installations, warranties and operational maintenance. Klimak technical team's support for the authority approvals on the project has contributed integrally to the successful completion and respect of the project has contributed integrally to the successful completion and

In recognition of Kilmak commitment to achieving highest standards of installation and support to the project and in my capacity as the Client Representatives' authorized nominated deputy and as the Project Director for the PMCMCS services, I hereby recommend Kilmak services with confidence, to any prospective developer and Client.

This statement is issued upon the request of Klimak.





Jay Naidoo

Sidra Project Director

ASIAD (agineering Consistency & Project Management *\STAC* Private Shareholding Company OX No. 3810).

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The MANAGE ROSE - 5414 4455 (804) Dish Carte To 1944 445 (804).

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