

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

Subbarao Gavirneni President Klimak srl

ROJECTS Ω

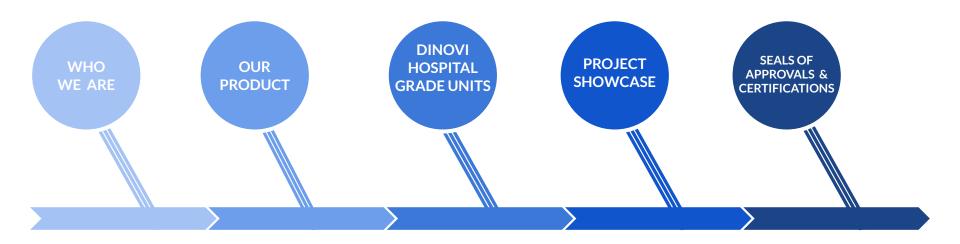








PRESENTATION OUTLINE





WHO WE ARE



COMPANY PROFILE

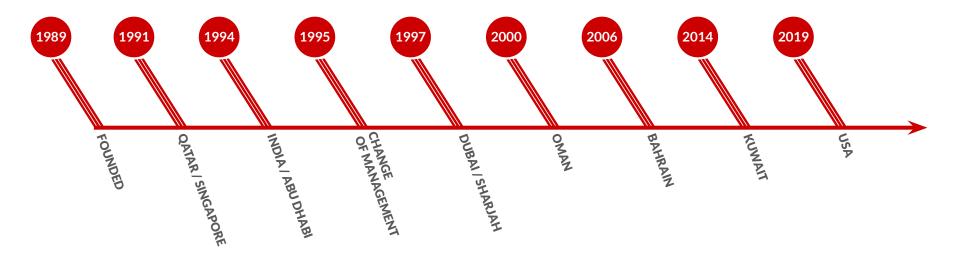
We specialize in double wall AHUs & FCUs incorporating components exceeding international standards to ensure trouble-free operation with minimum maintenance during the life of the AHU.

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.



Klimak founded in 1989 has grown from humble beginnings into one of the finest manufacturers of custom air handling units, passionately engineering and precisely crafting them at our facility located near Venice, Italy.

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 our landmark projects.



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

1 head office & production plant

14,000 m² (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







PRODUCTION FACILITY

















OUR PRODUCT

101 : 101

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KLIMAK STANDARD CONSTRUCTION DETAILS



Fan Arrays with energy efficient EC motors.



Insulated unit penetrations is tightly sealed for zero leakage.

Mechanical Service Vestibule with 10 gauge aluminium tread Plate.



Vertical Compression Filter Racks for ease of replacement and positive sealing.

(R)



Hospital Grade Washdown SS Interior Factory mounted victaulic couplings for ease of coil removal when necessary without disconnecting unit from pipework.

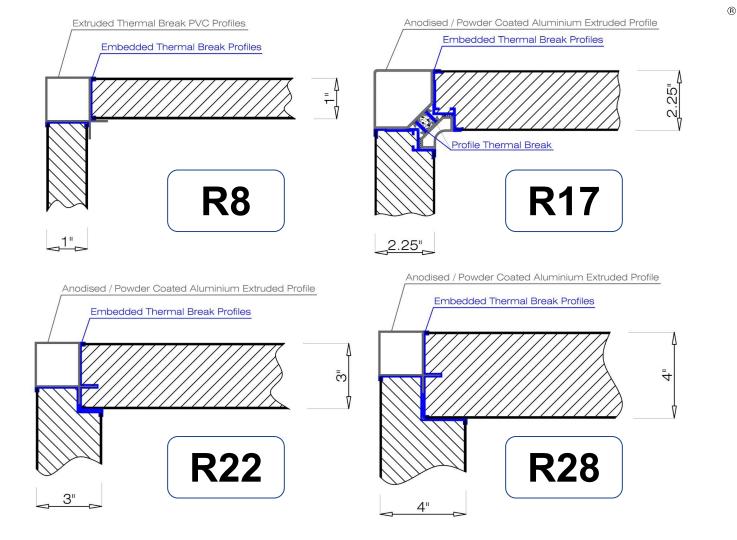






- Hinged access doors with embedded non sticky door seals.
- Air tight panels and door seals to withstand +ve/-ve 8" internal pressures.
- Out swing/in swing doors open against pressure.
- Cam lock handles to ensure tightness.
- Hinges and associated hardware made of corrosion and high temperature resistant nylon.
- Door with thermal break.



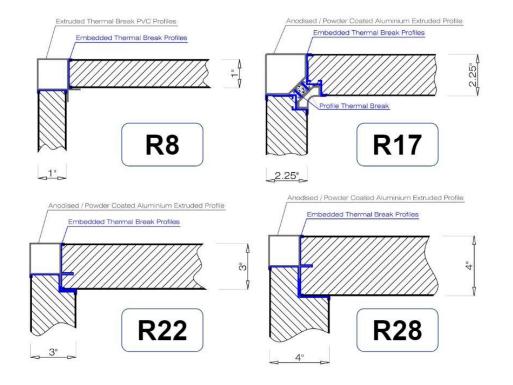


BREAK ETAILS THERMAL CASING D

Thermal Break Profiles for R-8, R-17, R-22, R-28,

Klimak pioneered thermal break technology back in 1989 to solve persistent sweating issues in high humid ambient installations. Since then similar concepts are being adapted by other manufacturers around the world, while Klimak updated the thermal break technology to higher levels.

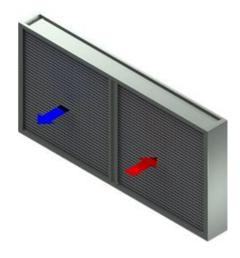
- Polyester Coated Galvanized Steel Sheet: 22/20/18/16 gauge.
- Polyester Coated Aluminum Alloy Sheet: 22/20/18/16 gauge.
- FRP: 0.05"thick
- Stainless Steel Sheet:
- AISI 304: 22/20/18/16 gauge.
- Stainless Steel Sheet:
- AISI 316: 22/20/18/16 gauge.
- Panel Insulation- Pressure Injected Foam.











Enthalpy & Sensible Wheels

Plate Heat Exchangers

Energy Recovery Heat Pipes



Introducing



Our 100% Washdown Units for healthcare applications

Hospital Grade AHUs

Raising the industry standards through continuous innovation

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







dinevi product HIGHLIGHTS



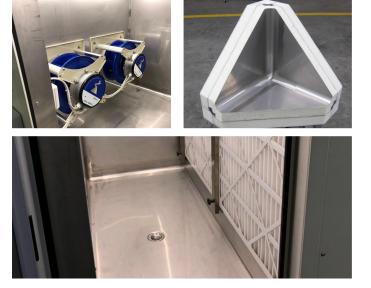


The **dinovi** Hospital Grade Air Handling Units are the latest innovation by Klimak to meet the stringent sterilization requirements of today's health care facilities.

Featuring 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.





From 6,000 CFM up 100,000 CFM



The improved double wall foam injected R-20/R-17 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, Glygol Run Around coils Heat Pipe are all available.

The **dinovi** Air Handling Units are configured with components like:

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

The dinovi air handling unit is composed of washdown chambers made of 304/316 stainless steel. Each unit comes with hygienic certification in accordance with DIN 1946 Part 4: 2008.



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

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Dr.-Ing. Timo Reisner Essen, 21 March 2016

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FINISHED PRODUCTS















FACTORY TESTING





INDEPENDENT LAB TESTING

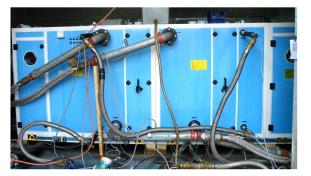
Certified to AHRI 430 and 410













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

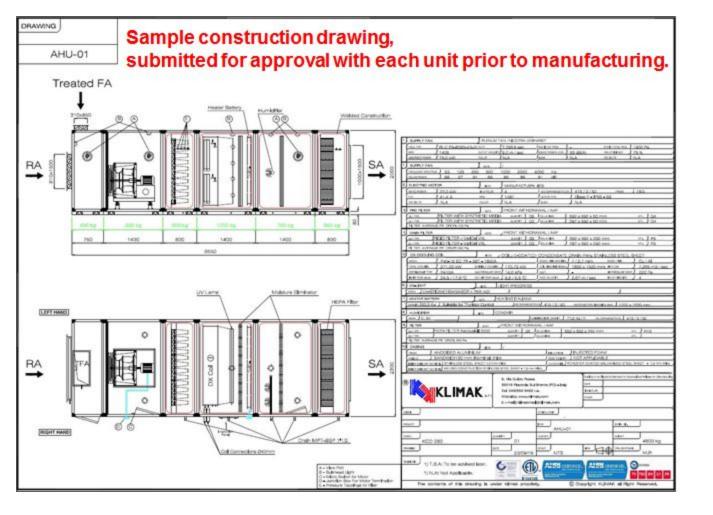














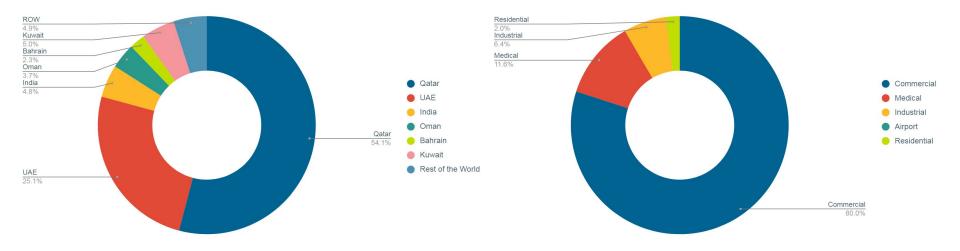




PROJECTS AROUND THE WORLD

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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)





Burj Khalifa

Country: Dubai, UAE Year: 2009 Description: Tallest building in the world Number of Handlers: 144

"The decision to use Klimak was made after an extensive compliance statement review process. In addition, a factory visit was made to review factory procedures, sample AHU and production capabilities. Independent 3rd party tests were then carried out on sample AHUs to measure actual thermal and acoustic performance against those specified. Hyder Consulting were favorably impressed with Klimak's products at all steps along the wan, and Klimak AHUs were in due course approved for the entire Burj Khalifa project" Alistair D Mitchell Principal Mechanical Engineer

Hyder Consulting Middle East



Emirates Towers

Location: Dubai, UAE Year: 1998 Description: Commercial and Business Offices Number of Air Handlers: 106 Units

"No problems at all in terms of quality, delivery, price or after sales service" Brian Thursfield Project Manager Emirates Towers, Dubai.





Hamad Medical City

Location: Doha, Qatar Year: 2013 Description: Medical Complex No. of Air Handlers: 324

" Successfully operating to our satisfaction for more than 8 years"

Naim Younis- Director, Health Facility Projects Management & Construction, Hamad Medical Corporation

RECENT PROJECTS IN THE US

8

- Azura Health, New York, NY
- University of Central Florida
- Crown Building, New York, NY
- Arnold Palmer Hospital for Children
- South Seminole Hospital, Orlando, Florida
- Slocum Dickson Medical Center, New Hartford
- Advent Health Medical Center, North Pinellas, Florida





SEALS OF APPROVAL

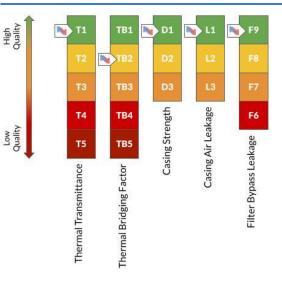
CERTIFICATIONS

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
- AHRI Standard 410 Forced Circulation Air-Cooling & Air Heating Coils (ACHC)
- 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 FCUs
- Eurovent Under Process











Air-Cooling and Air-Heating Coils

AHRI Standard 410



Central Station Air-Handlers AHRI Standard 430



APPRECIATION IETTERS

The Emirates Towers Project

Donald Smith. Segmour & Rooley

23/1/2000

Re : The Emirates Towers Project : Klimak AHU's & FCU's
Further to our meeting, we recommend your product to other customers and we
confirm that Klimak have supplied Air Handline. Commarkment and Fan Coil Units

to others.

themselves

Bryan Thursfield

Project Manager

project wide for this Landmark Project, with no problems at all in terms of quality, delivery, price or after sales service. The Construction Manager and Lead Consultar

are very pleased with the end result, and have no hesitation in recommending. Klimak

If any prospective customers or clients have any doubt's in this regard, we would welcome them to the Emirates Towers Project to judge the air side products for "The construction manager and lead consultant are very pleased with the end result, and have no hesitation in recommending Klimak to others".

Burj Khalifa

02

"The Specifications and standards required for Burj Khalifa were very high and we are pleased to confirm that the AHU manufactured and supplied by Klimak were able to meet these exacting standards".





APPRECIATION IETTERS



Sidra Medical and Research Centre Mega Project

"In recognition of Klimak commitment to achieving highest standards of installation and support to the project and in my capacity as the client representative authorized nominated deputy and as the project director for the PMCMCS services, I hereby recommend Klimak Services with confidence to any prospective developer and client."

Hamad Bin Khalifa Medical City

"We take this opportunity to thank each and every individual and company for their efforts and look forward together again in the future on new iconic international projects".



Chung Hoon Kim, Project Directo

Hyundai Engineering & Construction Co., Ltd.



Jay Naidoo Sidra Project Director

faidoo

Rof : 11/07/SPD-002 31 July 2018

throughout the region.

250 no. Fan Coil units to the protect

opening of this prestigious project.

This statement is issued upon the request of Klimak

المثلة المحتمدة الدين المنتخلية والدين المطاوية ^المثلاث التينة المتحدة عامة مجل لجاري 2019

أستاد STAD

TO WHOM IT MAY CONCERN

This serves to confirm that M/s.Klimak, manufacturers of Air Handling & Fan Coll Units has worked on the Sidra Medical and Research Centre Mega Project, designed to operate as an ALL-DIGITAL (nearly) paperless and film less environment where

information, images, and clinical know-bow are all connected and its systems are ologies and growth. The facility provides pa world class, patient-focused medical services for women and children in Oatar and

As the Specialist to the Major Mechanical and Electrical subcontractor, Klimak hav successfully supplied, installed and commissioned in excesses of 350 no. AHU's and

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

In recognition of Klimak 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 Klimak services with confidence, to any prospective developer and Client

vals on the project has contributed integrally to the successful completion and

CONTACT US

HEAD OFFICE & PRODUCTION PLANT

Klimak srl 9, Via Guido Rossa, 35016 Piazzola sul Brenta - Italy Tel. +39 049 559 9452 E mail : <u>klimakmail@klimak.com</u>

OUR REPS

USA (Northeast) Upstate Climate Solutions Mr. William Shultes wshultes@upstatehvac.com +1 (315) 412 3055

USA (Except Northeast) Climac Enterprises Mr. Mazen Awad mazen.awad@klimak.com +1(352) 246 5446

