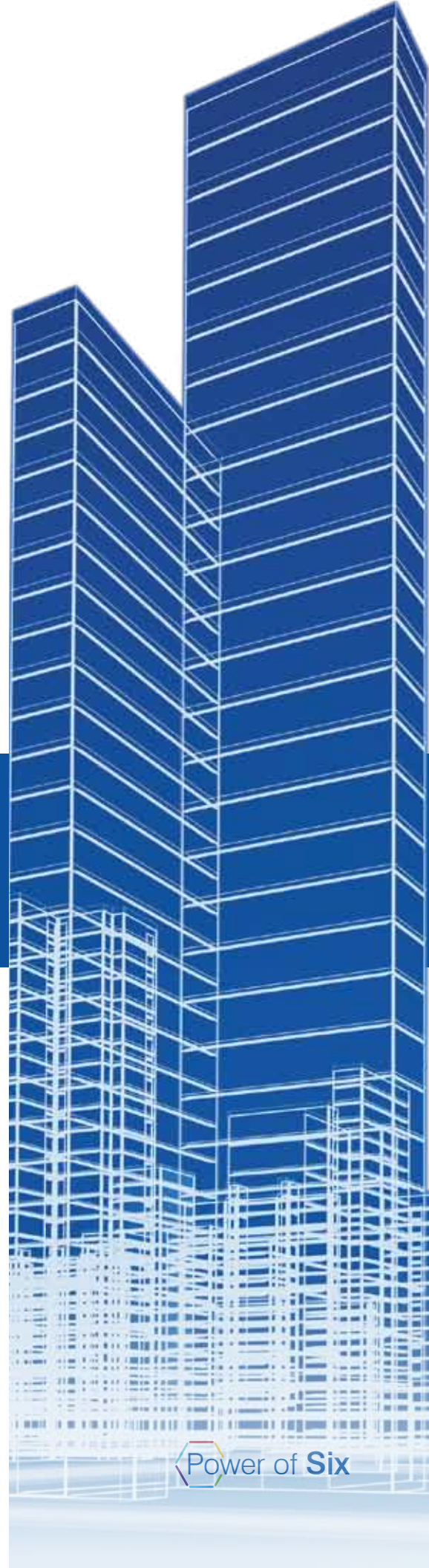


DRITM DOAS

HEXAIR

First time in India

**Dedicated Outdoor Air Systems (DOAS)
with Refrigeration on Board**





A global provider of components and systems for Energy Recovery, Indoor Air Quality (IAQ), Fresh Air Treatment, Evaporative Cooling, Desiccant Dehumidification & Green Buildings.

A leading supplier of Dedicated Outdoor Air System (DOAS) in Asia with focus on high latent load challenges. DRI continuously innovates and designs “Green” systems with specialised technologies to meet the ever evolving need for Fresh Air Systems.



Adding to its existing range of ULTIMA & ZENITH DOAS System, DRI brings you ...



India's First
Dedicated Outdoor Air Systems (DOAS)
with
Refrigeration on Board

In tropical regions bringing outdoor air in conditioned space means higher utility bills as the outdoor air needs to be both cooled and dehumidified before inducing in the conditioned space.

Energy recovery equipment have been a savior for providing a cost effective solutions to this problem.

The HEXAIR™ series with the Power of Six provides the right Green Fresh Air Solutions.

Need for Happy “New” Air...Ventilation

Indoor Air is 10 times more polluted than Outdoor Air ...



- We spend 90% of our lives conditioned indoor space, where air quality is frequently up to 10 times more polluted than Outdoor Air.
- Poor Indoor Air Quality, one of the top 5 Environmental risks to Public Health.

Source: EPA

Common Indoor Air Pollutants

Building occupants	Carbon dioxide (CO ₂), tobacco smoke, perfume, body odors.
Building materials	Dust, fiberglass, asbestos, gases including formaldehyde.
Workplace cleansers, solvents, pesticides, disinfectants, glues	Toxic vapors, volatile organic compounds (VOCs).
Furniture, carpets and paints	Gases, vapors, odors.
Carpets, fabric, foam cushions	Dust mites
Photocopiers, electric motors, electrostatic air cleaners	Ozone

Ventilation for acceptable Indoor Air Quality

Minimum Ventilation Rates in Breathing Zone		
Occupancy Category	People Outdoor Air Rate (cfm / Person)	Area Outdoor Air Rate (cfm / ft2)
Office Space	5	0.06
Class Room	10	0.12
Hotels	5	0.06

As per Ashrae 62.1

The Solution for *Pollution is Dilution*
i.e.
Bring in Fresh Outdoor Air to flush out Stale Indoor Air



DRI HEXAIR - MR series

An important aspect on maintaining Indoor Air Quality (IAQ) in conditioned space is RH (Relative Humidity) Management.

Increase in RH causes :

- Mould and Mildew Formation



- Increases Viral and Bacterial Activities



Improper design of cooling units often causes addition of moisture in the conditioned space thereby increasing humidity.

HEXAIR - MR takes care of these concerns

- **HEAXIR - MR** integrates desiccant dehumidification, cooling unit and energy recovery to maintain RH in conditioned spaces.
- The system also utilizes waste heat to regenerate specially customized desiccant wheel series thereby increasing the moisture removal capacity.
- The unit provides space neutral leaving temperature and low dew point to take care of room latent internal loads.
- Dehumidification is at no extra energy cost, as it uses waste heat of condensing coil to regenerate the desiccant wheel.
- The system is most energy efficient as it eliminates need for energy guzzling over cooling and reheat. It can be a 100% outdoor air or can work on partial outdoor and re-circulation air.



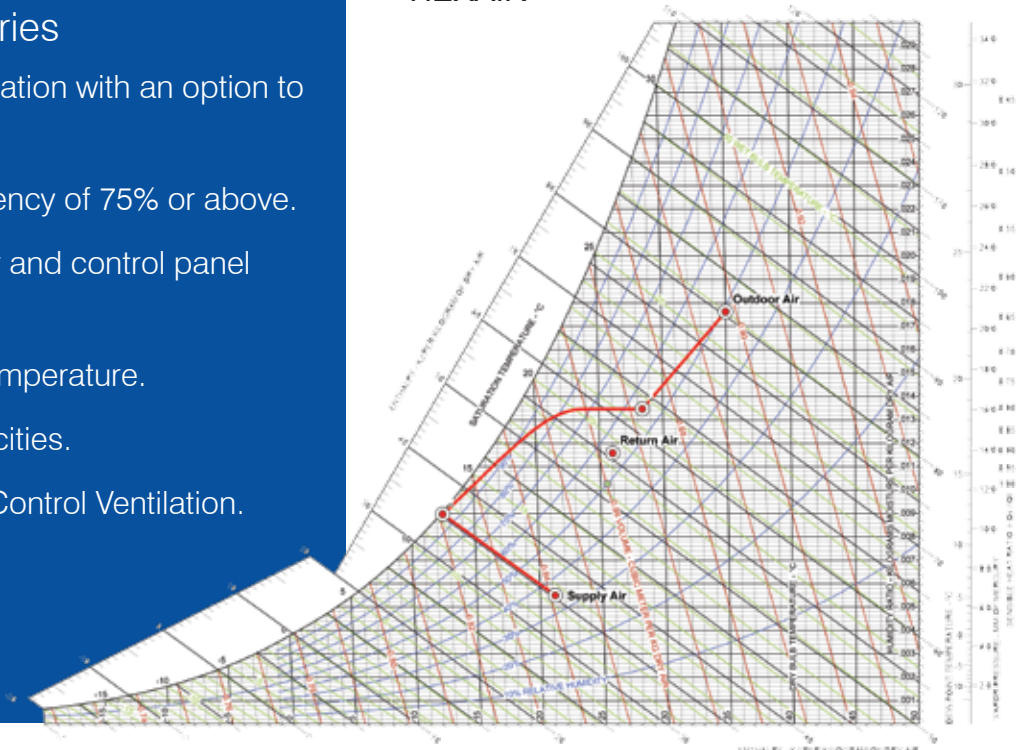
Benefits

- Low dew point outdoor air.
- Takes care of internal latent loads thereby better RH management.
- Independent temperature management and RH control in the building.
- Flexibility of increasing chilled water temperature in chiller based system, as parallel system is limited to temperature control.
- Dry Healthy duct work.

Features

HEXAIR - MR series

- 100% outdoor air operation with an option to provide re-circulation.
- Energy recovery efficiency of 75% or above.
- Fully integrated starter and control panel - Plug and play
- Step-less control of temperature.
- Variable cooling capacities.
- Suitable for Demand Control Ventilation.



DRI HEXAIR - MR series...Technical Data*

Unit Models		UVS-R-15000	UVS-R-20000	UVS-R-25000	UVS-R-30000
Unit Air flow	CFM	8828	11770	14713	17655
	CMH	15000	20000	25000	30000



with  **Power of Six**

India's First

Dedicated Outdoor Air Systems (DOAS)
with *Refrigeration on Board*

1. Improved Indoor Air Quality
2. Proper Space Utilisation
3. Free Reheat
4. Humidity Management
5. Highest MRE
6. Utilises waste heat or Regeneration

Ideal for:



- Hotels & Hospitality
- Commercial Spaces & Malls
- Hospitals & Health care facilities
- Office Spaces & IT Offices



1. Integrated Manufacturing
2. Certified Components & Casing(s)
3. Single Point responsibility
4. Govt. recognized certified test labs
5. World Class sales & service network
6. Made in India