

DRITM DOAS ULTIMA

Dedicated Outdoor Air System

The *complete*

Fresh Air Management Systems

with

- ⊙ G3MA Passive Wheel (Patented)
- ⊙ DRISmart EMS

The **ULTIMATE**
in Fresh Air HVAC Systems



A giant leap into the future



A GIANT LEAP INTO THE FUTURE

Raising the bar !

DRI's cutting edge R&D has resulted in the development of the **ULTIMA DOAS** which allows designers to provide ultimate fresh air ventilation as a single source responsibility.

ASHRAE Standard 62 recommends inflow of large quantity of fresh air for improved;

➤ Ventilation ➤ IEQ (Indoor Environment Quality) and to achieve LEED points.

However, controlling both temperature and humidity of fresh air is a challenge!

Designers, world-wide, are increasingly adopting the **Divide & Conquer (D&Q)** approach. In the D&Q approach the **fresh air load** and the room internal **latent load** is handled by the **Fresh Air Unit (DOAS)** where in it is decoupled from the internal sensible load. The **sensible load** is handled through a parallel unit/system which can either be Chilled Beams/FCUs etc.

How does the ULTIMA work?

The new **DRI ULTIMA DOAS** is a unitized **Fresh Air Management System** integrated through a unique configuration of **EcoFresh** Heat Wheel, a cooling coil and the innovative **G3MA "Passive"** desiccant

dehumidification wheel (Patented) and a proprietary controlled embedded logic in the **DRI SMART EMS**.

The **EcoFresh** Total Enthalpy Wheel preconditions the fresh air, the conventional cooling system and G3MA "Passive" desiccant dehumidification (Patented) wheel ensure supply of perfectly controlled temperature and dew point for a wide range of ambient

DRI DOAS ULTIMA

It is not a unit . . . it is not a product . . . it is a system . . . UNITIZED & READY TO GO !

ECO FRESH™ TOTAL ENERGY RECOVERY WHEEL

- 3Å Molecular Sieve coated.
- Almost no cross contamination.
- #1 performance - worldwide.
- Certified Wheels

DRI SMART EMS (Energy Management System)

is an intelligent controller with imbedded logic which modulates various components, air flows and rotor speed, based on inputs from dual and other inbuilt sensors, for varying outside air parameter / conditions.

- Fully automatic micro processor controlled operation
- Inbuilt CO₂ Demand Control Ventilation (DCV) option
- Inbuilt Dual sensors
- Can be connected with the Building Management System (BMS) through suitable communication protocol.

Ultimate for

- The "Moisture Centric" tropical countries.
- Achieves both RH control and energy recovery

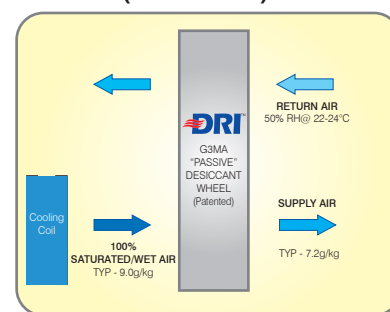


Path breaking innovation for Desiccant Dehumidification without energy usage !

The unique G3MA "Passive" Desiccant Dehumidification Wheel (Patented)

has the ability to be regenerated with the 50% RH room return air allowing for substantial moisture removal through dehumidification of the fresh air being supplied to the room. This is intelligently controlled by the **DRI SMART EMS** (Energy Management System) to provide rotor speed optimization for different load conditions and different outside conditions.

- High performance "in-situ" synthesized desiccant (wheel)
- Fully water washable
- 100% non-flammable
- Removes moisture from a saturated air stream without heat/thermal regeneration
- Unique seal arrangement ensures nearly zero carryover/leakage between the two air streams
- No washing away of desiccant on continued exposure to saturated/wet air.



Designed to International Standards

- Double Skin Casing : Strength 1A (New D2)
- 0.8 mm thick inner & outer pre - powder coated plasticized sheets.
- Tightness Class B as per Eurovent Standard EN 1886.
- Filter leakage class F8.
- Thermal transmittance T2.
- Thermal bridging factor TB2.



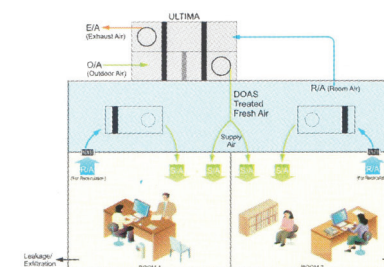
Ideal for :

- Office Spaces / IT Offices
- Hotels / Hospitality
- Hospitals / Health Care Facilities
- Commercial Spaces / Malls
- Substantial Green Building LEED Points for
 - Energy saving (55%) approx
 - Improved IEQ
 - Innovative new technology

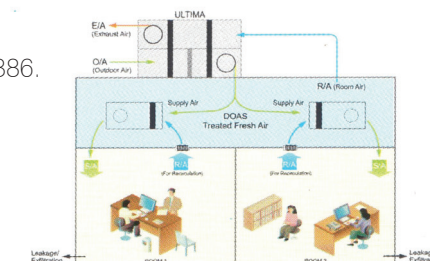


Installation Options :

ULTIMA DOAS in parallel with terminal equipment

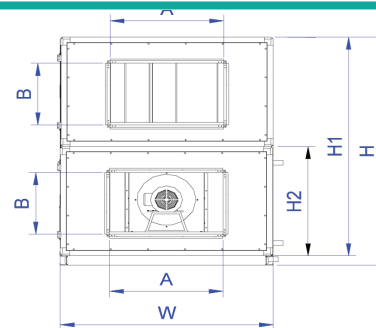
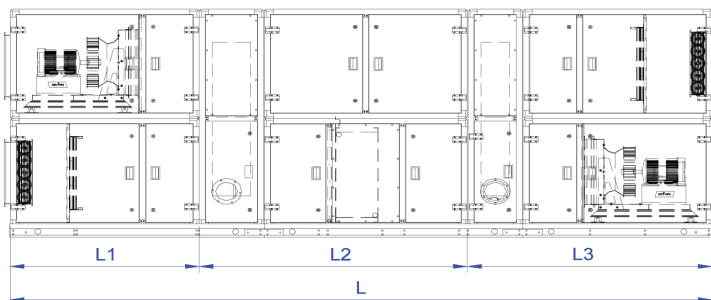


Ultima DOAS in series with terminal equipment



Unit Model	Air Volume			Dimensions in mm										Weight in Kgs.
	CMH	m³/s	CFM	L	L1	L2	L3	W	H	H1	H2	A	B	
UVS-2500	2500	0.69	1471	4525	1115	1890	1500	1070	1515	1440	720	500	300	1165
UVS-3500	3500	0.97	2060	4735	1220	1890	1605	1200	1675	1600	800	700	300	1390
UVS-6000	6000	1.67	3531	4965	1335	1890	1720	1500	1855	1780	890	800	500	1885
UVS-8000	8000	2.22	4708	5235	1470	1890	1855	1700	2055	1980	990	1000	500	2405
UVS-10000	10000	2.78	5885	5525	1615	1890	2000	1850	2270	2170	1085	1200	600	3110
UVS-15000	15000	4.17	8828	5835	1770	1890	2155	2240	2510	2410	1205	1400	800	3875
UVS-20000	20000	5.56	11770	6955	2165	2055	2715	2650	3110	3010	1505	1600	800	6150
UVS-25000	25000	6.94	14713	7425	2400	2055	2950	2900	3520	3370	1685	1800	900	7605
UVS-30000	30000	8.33	17655	7955	2665	2055	3215	3150	3920	3770	1885	2000	1000	9250
UVS-40000	40000	11.11	23540	8595	2930	2110	3535	3550	4320	4170	2085	2200	1200	12160
UVS-50000	50000	13.89	29425	9265	3265	2110	3870	3950	4800	4650	2325	2400	1400	14745

*Because of our policy of continuous product improvements, specifications are subject to change without notice.



DRI™
your worldwide Green
HVAC partner...



DESICCANT ROTORS INTERNATIONAL Pvt. Ltd.

PAHWA™ GROUP
Innovation is life

DRI (INDIA)
100-101, Udyog Vihar, Phase-IV,
Gurugram 122015, INDIA
Tel.: +91-124-4188888
Fax: +91-124-4188800
E-Mail : drimarketing@pahwa.com
Web : www.drirotors.com

DRI (KOREA)
107-503 Yeoksam E pyonhan
Sesang APT, Yeoksamdong
755-4 Kangnamgu Seoul Korea
(SeonReungro 69th street 20)
Tel.: +82-10-8635-0851
E-Mail: drikorea@hanmail.net
Web: www.drikorea.co.kr

DRI (USA)
8675 Rio Grande Blvd. NW
Los Ranchos, NM 87114, USA
Phone : +1 872-985-8477
E-mail : drimarketing@pahwa.com
Website : www.driamerica.com

DRI (UAE)
P.O. Box No. 120672,
Q3-106, SAIF-Zone,
Sharjah, UAE
Tel.: +971-6-5578148
Fax: +971-6-5578149
Email : enquire@dri.ae
Website: www.drirotors.com

COUNTRY
MALAYSIA
CHINA
PHILIPPINES
BRAZIL
INDONESIA
VIETNAM
CANADA
NIGERIA
SWITZERLAND
BANGLADESH

Phone
+60-3-77259919
+86-21-51591555
+63-2-8078436
+55-41-36982222
+62-21-79199023
+84-8-39956498
+514-299-1131
+234-8097276772
+41-91-6830971
+880-1819409100

Email
bam@bryair.com.my
info@bryair.com.cn
mail@bryair.com.ph
contato@bryair.com.br
indomark@bryair.com.my
vietmarketing@bryair.com.my
vveramian@driamerica.com
bryairmarketing@pahwa.com
msammartini@pro-kon.ch
bryairbangladesh@pahwa.com

Website
www.bryair.com.my
www.bryair.com.cn
www.bryair.com.ph
www.bryair.com.br
www.bryair.com.myindonesia
www.bryair.com.myvietnam
www.driamerica.com
www.bryair.com/nigeria
www.pro-kon.ch
www.bryair.com/bangladesh

India • Malaysia • Indonesia • Vietnam • Philippines • Korea • China • Japan • USA • Canada • Bangladesh • Brazil • Switzerland • Nigeria • UA E • Saudi Arabia

©, ® & 'TM' of Desiccant Rotors International Pvt. Ltd.