



Aeolus Viva

Fume hood with integrated
VAV system and IoT compatibility

Safer, smarter labs. More efficient research.

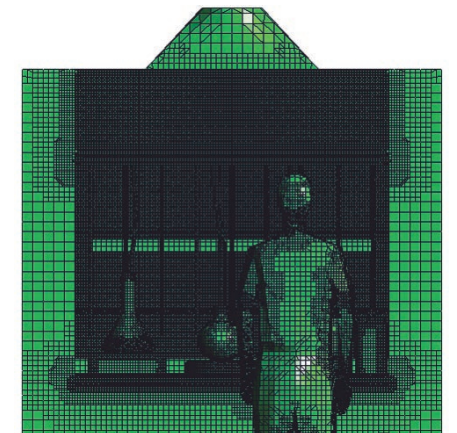
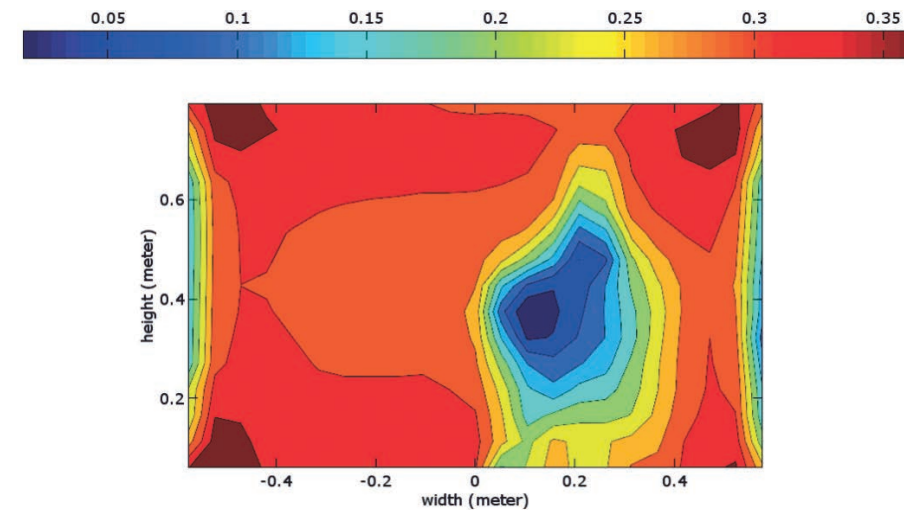
interio
by *Godrej*



Working Principle

Laminar air flow management

Real life airflow simulation



Aeolus VIVA is designed based on outcomes of Advanced COMPUTATIONAL FLUID DYNAMICS (CFD) analysis that simulated actual working conditions helping to analyze their effects on airflow patterns and subsequent fume containment. This has allowed the efficiency and robustness parameters to be exceedingly good. Aeolus VIVA is safe to operate at face velocities of 0.4m/s or 78 fpm

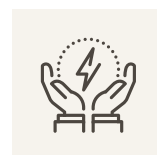
Creating Safer, Smarter Labs

With people being the most valued asset in any organisation today, research labs are constantly raising the bar where safe and professional working conditions are concerned. From unforeseen spills to chemical releases and other such work related accidents, organisations need to keep their personnel and equipment safe.

Interio is proud to present Aeolus Viva – a contemporary fume hood with integrated Variable Air Volume (VAV) system and IoT compatibility.

Designed to enhance energy efficiency and make labs more responsive in times of emergencies, Aeolus VIVA will keep your users and equipment safe. It has customisable features and has the scope to be upgraded to advanced technologies in the future.

And yes, it scores well in the aesthetics department as well!



Energy Efficiency



Safety



Ergonomics



Connected

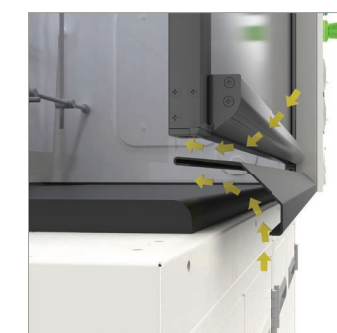
World Class Airflow Engineering



A Fully Air Assisted & Internal Vortex Control improves containment near the sash opening by increasing the velocity of fresh air.



Aerodynamic Sash Terminator and Handle:
A gentle airlift by 6-degrees in the Aerofoil improves the containment considerably.



Outer Elephant Tusk deflector at face level has ensured containment by increasing the airflow into the hood.



The gradual slope of the inner deflector vane assists the incoming fresh air to control the internal turbulence.



Keeping your research teams safe through innovation.

As labs transform into smart connected zones, Aeolus VIVA comes equipped with IoT compatibility, and several innovative features that make it ideal for modern research labs. Some of the exciting value adds to this fume hood include: Autosash VAV integration, Emergency Stop Switch, New Electrical Control Panel, Enhanced Service Accessibility and Scope to customise and upgrade.



Innovative



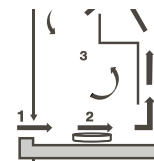
Aesthetic



Customizable

Autosash VAV Integration

Here's a quick look at what this integration brings.



Emergency Fume Hood Purge Sequence

Single button press in case of spillages, facilitates quick extraction from the site of spill. **Benefit:** Containment of hazardous fumes inside the fume hood and quick extraction into environment.



Fire Alarm Feature

The VAV system of Aeolus VIVA takes inputs from the external fire alarm system of the lab. Once the fire alarm signal is detected, the sash closes automatically and gets locked. **Benefit:** Stops fire from spreading, keeps the lab safe.



Night Setback Feature

Enables additional energy saving for airconditioned labs with night setback setting. **Benefit:** Makes the lab energy efficient during low occupancy periods.



Room Purge Feature

One touch room purge feature to assist in maximization of the room air circulation to remove the dangerous chemical spillage from the lab. **Benefit:** Quick extraction of hazardous fumes from the lab environment.

Built to perform



Emergency Stop Switch

In cases of electrical emergencies, user can press the very conspicuous Emergency Stop Switch on the fume hood panel. This will cut off the raw power supply to sockets and temperature controller on the fume hood.



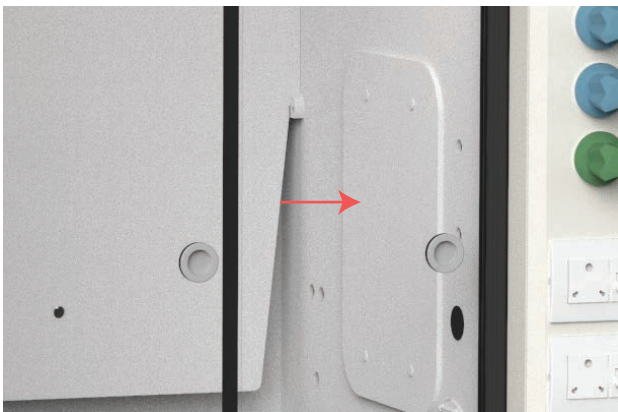
New Electrical Control panel – U R Panel

The new panel is designed to work on single phase power supply, requiring separate supply lines for raw and UPS power. This arrangement provides protection to sensitive electrical devices within the fume hood, during cases of power fluctuations and outages.



Automatic Fire Extinguisher

This safety feature helps in curbing the spread of the fire outside the fume hood chamber thereby protecting personnel and property from any damage. This feature is incorporated in certain models of the fume hood.



Designed for ease of service accessibility

Front panel can be easily opened to access the electrical connections and hoses for water, nitrogen and more. The removable Access Panel on side wall inside work chambers provides direct access to service hoses.

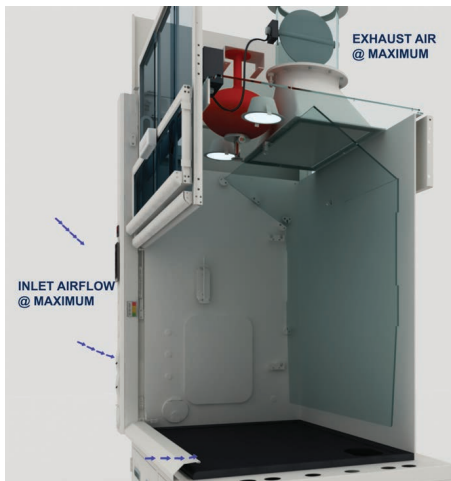
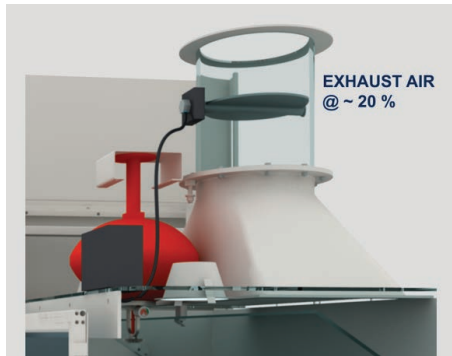


Digital Temperature Controller with MODBUS (optional accessory)

The device ensures precise temperature regulation within the fume hood environment. Equipped with RS485 connectivity, it enables seamless communication with other compatible devices. The device allows for centralized monitoring and adjustments, enhancing user convenience.

Auto Sash with Variable Air Volume

Variable Air Volume (VAV) Exhaust mechanism senses the position of the sash and accordingly rotates an electronically controlled exhaust damper to have a control on the Volume of exhaust of fresh conditioned air from the lab. Auto sash closes the sash automatically in the user's absence in front of the fume hood, thereby controlling the damper rotation. VAV system coupled with auto sash gives best results in energy saving.



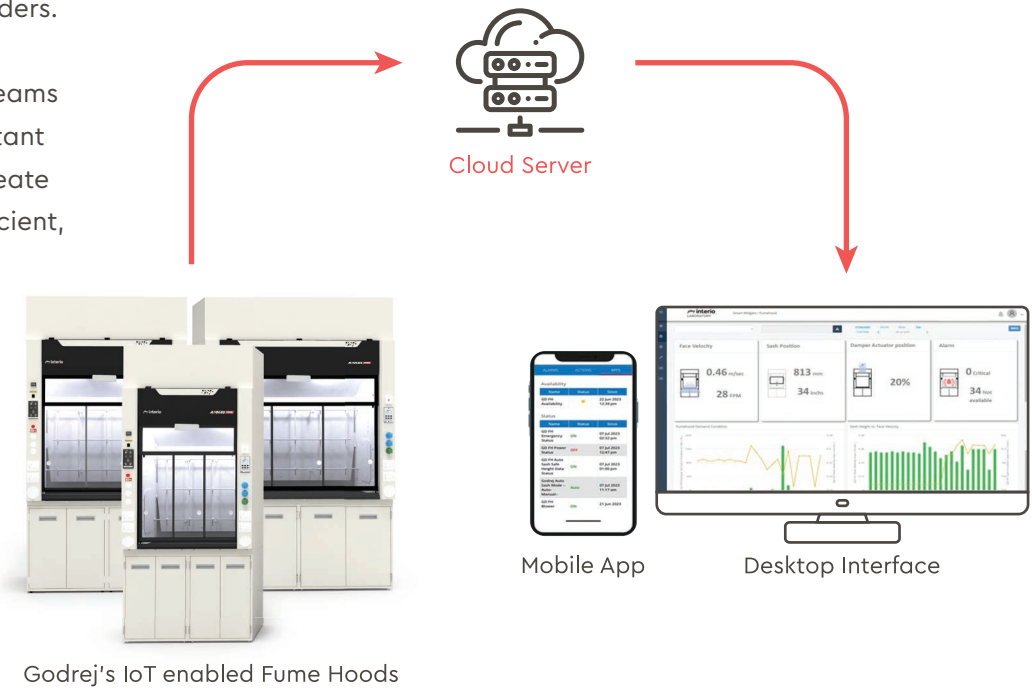
Choose from these variants

Let your research lab make an elegant statement with Aeolus VIVA's clean, minimalist lines and a unique front facade. Available in a choice of two colours: milky white and cloud grey, it blends in easily with existing equipment of modern day labs.



Make your Fume Hood Smarter with IoT Compatability

The Aeolus VIVA Fume Hood helps connect the different stakeholders. It enables reseachers, admin personnel and maintenance teams get regular updates on important data. This ecosystem helps create labs that are more energy efficient, safe and future ready.



Product Certificates

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BS EN 14175 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH BS EN 14175, PART 3

CERTIFICATE & REPORT NO: INV/EN14175/685
DATE: 18th December 2014

Fume Cupboard Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

Test Openings:

Width: 920mm (Vert)
260mm (Hor)
Height: 500mm (Vert)
765mm (Hor)

Fume Cupboard Type:
AEOLUS
1.2m wide LCV bench type

External Dimensions:
Height = 2375mm
(1550mm + 825mm)
Width = 1200mm
Depth = 900mm

Internal Dimensions:
Height = 1180mm (max)
Width = 920mm
Depth = 715mm (wall-sash)
665mm (baffle-sash)

Fume Cupboard Flow:

Flow rate: 0.268m³/s
Face velocity: 0.529m/s (at 500mm Vert)
Press drop: 18Pa (at 244mm ID)

Fume Cupboard Containment:

Inner-plane containment:
C1: <0.010ppm (Hor & Vert)
Outer-plane containment:
C2, C3, C4, C5: <0.010ppm (Hor & Vert)
Robustness of containment:
CR: <0.010ppm (Hor & Vert)

This is to certify that the fume cupboard described above has been type tested in accordance with Part 3 of BS EN 14175, in compliance with the requirements of Part 2 and with reference to Part 1, and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen

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18/12/14
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BS EN 14175 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH BS EN 14175, PART 6

CERTIFICATE & REPORT NO: INV/EN14175/685-A
DATE: 18th December 2014

Fume Cupboard Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

VAV Controller Manufacturer:
Temperature Electronics Ltd
Unit 2, Wren Nest Road
Glossop SK13 8HB
ENGLAND

Fume Cupboard Type:
AEOLUS
1.2m wide LCV bench type

Velocity setpoint: 0.50m/s
Max flow rate: 0.268m³/s
Min flow rate: 0.075m³/s

VAV Controller Type:
Digital Face Velocity Controller
Model: AFA1000/E
Actuator: Neptonic electric
Damper: 250mmD butterfly

This is to certify that the fume cupboard and the VAV controller described above has been type-tested as an integral unit in accordance with BS EN 14175, Part 6 and in compliance with the requirements of Part 2, and resulted in performance characteristics given in the corresponding test report.

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ASHRAE 110-2016 : SEFA 1-2010 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH ASHRAE 110-2016

CERTIFICATE & REPORT NO: INV/ASHRAE110/853-A
DATE: 30th April 2018

Fume Hood Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

Test Opening:

Width: 920mm
Height: 500mm

Fume Hood Type:
AEOLUS
1.2m wide LCV bench type

External Dimensions:
Height = 2375mm
(1550mm + 825mm)
Width = 1200mm
Depth = 900mm

Internal Dimensions:
Height = 1180mm (max)
Width = 920mm
Depth = 715mm (wall-sash)
665mm (baffle-sash)

Fume Hood Flow:

Face velocity: 101fpm (0.52m/s)
Flow rate: 565cfm (960m³/hr)
Pressure drop: 18Pa @ 244mmID

Fume Hood Containment:

At all test positions: <0.010ppm
Test opening scans: <0.050ppm
Sash movement effect: <0.010ppm

This is to certify that the fume hood described above has been type-tested in accordance with ASHRAE 110-2016, as required by SEFA 1-2010, and resulted in performance characteristics given in the corresponding test report.

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Product Certificates

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BS EN 14175Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH BS EN 14175, PART 3

CERTIFICATE & REPORT NO: INV/EN14175/686

DATE: 18th December 2014

Fume Cupboard Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

Test Openings:

Width: 1220mm (Vert)
360mm (Hor)
Height: 500mm (Vert)
765mm (Hor)

Fume Cupboard Type:
AEOLUS
1.5m wide LCV bench type

External Dimensions:
Height = 2375mm
(1550mm + 825mm)
Width = 1500mm
Depth = 900mm
Internal Dimensions:
Height = 1180mm (max)
Width = 1220mm
Depth = 715mm (wall-sash)
665mm (baffle-sash)

Fume Cupboard Flow:
Flow rate: 0.345m³/s
Face velocity: 0.515m/s (at 500mm Vert)
Press drop: 29Pa (at 244mm ID)

Fume Cupboard Containment:

Inner-plane containment:
C1: <0.010ppm (Hor & Vert)
Outer-plane containment:
C2, C3, C4, C5: <0.010ppm (Hor & Vert)
Robustness of containment:
CR: <0.010ppm (Hor & Vert)

This is to certify that the fume cupboard described above has been type tested in accordance with Part 3 of BS EN 14175, in compliance with the requirements of Part 2 and with reference to Part 1, and resulted in performance characteristics given in the corresponding test report.

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BS EN 14175Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH BS EN 14175, PART 6

CERTIFICATE & REPORT NO: INV/EN14175/686-A

DATE: 18th December 2014

Fume Cupboard Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

VAV Controller Manufacturer:
Temperature Electronics Ltd
Unit 2, Wren Nest Road
Glossop SK13 8HB
ENGLAND

Fume Cupboard Type:
AEOLUS
1.5m wide LCV bench type

Velocity setpoint: 0.50m/s
Max flow rate: 0.345m³/s
Min flow rate: 0.093m³/s

VAV Controller Type:
Digital Face Velocity Controller
Model: AFA1000/E
Actuator: Neptronic electric
Damper: 250mmD butterfly

This is to certify that the fume cupboard and the VAV controller described above has been type-tested as an integral unit in accordance with BS EN 14175, Part 6 and in compliance with the requirements of Part 2, and resulted in performance characteristics given in the corresponding test report.

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BS EN 14175Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH BS EN 14175, PART 3

CERTIFICATE & REPORT NO: INV/EN14175/687

DATE: 18th December 2014

Fume Cupboard Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

Test Openings:

Width: 1520mm (Vert)
460mm (Hor)
Height: 500mm (Vert)
765mm (Hor)

Fume Cupboard Type:
AEOLUS
1.8m wide LCV bench type

External Dimensions:
Height = 2375mm
(1550mm + 825mm)
Width = 1800mm
Depth = 900mm
Internal Dimensions:
Height = 1180mm (max)
Width = 1520mm
Depth = 715mm (wall-sash)
665mm (baffle-sash)

Fume Cupboard Flow:
Flow rate: 0.440m³/s
Face velocity: 0.525m/s (at 500mm Vert)
Press drop: 46Pa (at 244mm ID)

Fume Cupboard Containment:

Inner-plane containment:
C1: <0.010ppm (Hor & Vert)
Outer-plane containment:
C2, C3, C4, C5: <0.010ppm (Hor & Vert)
Robustness of containment:
CR: <0.010ppm (Hor & Vert)

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BS EN 14175Flow Containment & Instrumentation

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CERTIFICATE & REPORT NO: INV/EN14175/687-A

DATE: 18th December 2014

Fume Cupboard Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

VAV Controller Manufacturer:
Temperature Electronics Ltd
Unit 2, Wren Nest Road
Glossop SK13 8HB
ENGLAND

Fume Cupboard Type:
AEOLUS
1.8m wide LCV bench type

Velocity setpoint: 0.50m/s
Max flow rate: 0.440m³/s
Min flow rate: 0.119m³/s

VAV Controller Type:
Digital Face Velocity Controller
Model: AFA1000/E
Actuator: Neptronic electric
Damper: 250mmD butterfly

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ASHRAE 110-2016SEFA 1-2010Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH ASHRAE 110-2016

CERTIFICATE & REPORT NO: INV/ASHRAE110/854-A

DATE: 30th April 2018

Fume Hood Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

Test Opening:

Width: 1220mm
Height: 500mm

Fume Hood Type:
AEOLUS
1.5m wide LCV bench type

External Dimensions:
Height = 2375mm
(1550mm + 825mm)
Width = 1500mm
Depth = 900mm
Internal Dimensions:
Height = 1180mm (max)
Width = 1220mm
Depth = 715mm (wall-sash)
665mm (baffle-sash)

Fume Hood Flow:
Face velocity: 101fpm (0.52m/s)
Flow rate: 730cfm (1240m³/hr)
Pressure drop: 29Pa @ 244mmID

Fume Hood Containment:

At all test positions: <0.010ppm
Test opening scans: <0.050ppm
Sash movement effect: <0.010ppm

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ASHRAE 110-2016SEFA 1-2010Flow Containment & Instrumentation

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CERTIFICATE & REPORT NO: INV/ASHRAE110/855-A

DATE: 30th April 2018

Fume Hood Manufacturer:
Godrej & Boyce Mfg Co Ltd
Pirojsha Nagar, Vikhroli,
Mumbai 400 079
INDIA

Test Opening:

Width: 1520mm
Height: 500mm

Fume Hood Type:
AEOLUS
1.8m wide LCV bench type

External Dimensions:
Height = 2375mm
(1550mm + 825mm)
Width = 1800mm
Depth = 900mm
Internal Dimensions:
Height = 1180mm (max)
Width = 1520mm
Depth = 715mm (wall-sash)
665mm (baffle-sash)

Fume Hood Flow:
Face velocity: 102fpm (0.52m/s)
Flow rate: 930cfm (1580m³/hr)
Pressure drop: 46Pa @ 244mmID

Fume Hood Containment:

At all test positions: <0.010ppm
Test opening scans: <0.050ppm
Sash movement effect: <0.010ppm

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