

## Our ANFD Isolators

Schematic Engineering Industries are part of the Standard Group of Companies who specialize in supplying turnkey containment systems for a wide range of process applications and equipment types, including Agitated Nutsche Filter Dryer's (ANFD's).

We design, manufacture and install Barrier Isolator systems for seamless integrated with ANFD's, including already installed client ANFD's or newly supplied ANFD's from the Standard Group of Companies.

Our ANFD Barrier Isolators are available with either a negative or positive pressurized internal environment depending on the processed media and application.

The Schematic design standard default for ANFD applications is a negative (-ve) barrier isolator, where the process media is hazardous, dangerous or has an unacceptably high toxic level. This provides a risk-free environment for the operator as potent product vapours are taken to the systems filtered exhaust.



## ANFD Applications

Our Agitated Nutsche filter Dryer (ANFD) Barrier Isolators are used in a wide variety of applications including;

- Textiles and fabric Dying
- Paints, Varnish and surface coatings
- Pharmaceutical production
- Waste water treatment

## Technical Specification

- ISO14644-1: class ISO 5 (Class 100, GradeA)
- Rigid Stainless Steel Construction
- Containment breach and Filter choked alarms
- Low pressure and high pressure alarms
- Interlocked door system and HEPA Filters
- Light Vacuum (100 Pa) system
- Transfer System and drum tippers (optional)
- Supplied to all OEL Categories OEL 1-5
- Can be Supplied with integrated Weighing Scale, Nutsche Filter, Vacuum Tray Dryer, Continuous liner port and Drum loader

## Client Value-Adding Benefits

### Design Features

- Integral ANFD Barrier Isolator
- Fully welded construction with large radi and polished corners
- Push-push type safe changeable HEPA filters on inlet and outlet vents
- cGAMP - PLC/HMI controlled - Digital pressure or Electrical controller
- Integrated Clean In Place system
- Laminar airflow with Oxygen monitoring / Nitrogen inertization
- Split Butterfly valve
- Multiple or Single Chambers with raise/lower systems

### Customer Benefits

- Permanently Fixed or Detachable design for plant flexibility
- cGMP with elimination of bug-traps
- Advanced operator/environmental Safety
- cGAMP controller maintains a constant pressure
- Integrated CIP facilitates cleaning at each corner of chamber
- Air Flow optimises isolator operation
- Valve allows safe transfer of material
- Optimised operator comfort



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## ANFD Isolators



**agitated nutsche filter  
dryer barrier isolators**

### Design Features

Integral ANFD Barrier Isolator  
Large radi and polished corners  
HEPA filters on inlet and outlet vents  
cGAMP-PLC/HMI controlled  
Multiple or Single Chambers

### Operational Benefits

Safe & effective removal of CAKE  
Uncontaminated process media  
Clear visibility during operation  
Fully interlocked doors for operator safety



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### Schematic Engineering Industries

Plot NO 18/A, Phase-I, Road No 10,  
SVCIE, Jeedimetla, Hyderabad - 500 055, TS, India.

Email: [info@schematicind.com](mailto:info@schematicind.com)

Ph: +91 40 2309 4082 / 4082

Mob: +91 958 1111 446

### UK Office Address

Unit 1, Brookdale Court  
Thornccliffe Business Park  
Sheffield, South Yorkshire, S35 2PT  
Ph: +44(0)7739 587683



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