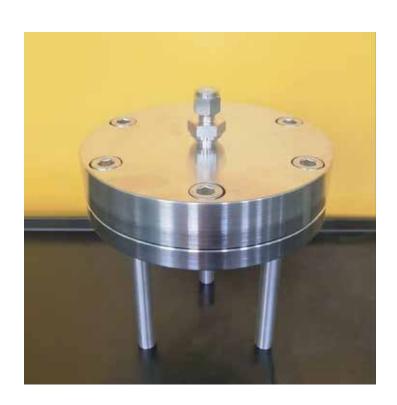




DACGuardTM Universal guard for DAC Columns



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



DACGuard[™] designed by Analytical Technologies Limited for optimising productivity of chromatography purification. The advantages of using a frit-based Guard Column for a DAC (Dynamic Axial Compression) 100, 150, 200, 300, 400, 800 mm ID column - especially in preparative and process-scale chromatography:

Protects the Main Column:

- Prevents contamination and blockage of the expensive DAC column by trapping particulates, precipitates, and impurities before they enter the main bed.
- Extends column lifespan, saving costs on frequent repacking or replacement.

Maintains Consistent Performance:

- Ensures uniform flow distribution by filtering out debris that could cause channeling or pressure fluctuations.
- Stabilizes back pressure, maintaining optimal separation efficiency throughout long production runs.

Easy Maintenance & Replacement:

- The frit-based guard is modular and easily replaceable, allowing rapid maintenance without disturbing the main column packing.
- Reduces downtime and solvent wastage during cleaning or changeover.

High Mechanical Strength:

- Fabricated from 316L stainless steel, ensuring chemical resistance, pressure stability, and corrosion protection under high-pressure DAC operation.
- Can handle axial compression forces and repeated pressure cycles typical in largescale chromatography.

Customizable Filtration Accuracy:

- Frits available in 2–3 µm pore sizes (or customized on request) ideal for protecting high-performance packings while maintaining flow rates.
- Supports clean, particle-free mobile phase delivery to the main column bed

Improved Process Reliability:

- Enhances reproducibility of chromatographic results by preventing contamination-driven variability.
 - Particularly useful for multi-batch purification and continuous production setups.



Cost-Effective Long-Term Solution

- A small investment compared to the cost of a 100,150, 200, 300,400, 600 and 800 mm DAC column.
- Significantly reduces operational and maintenance costs over time.

Technical Specifications:

- Material: 316L stainless steel
- The diameter is 200mm, standard 1/4-inch pipe fitting, with a filtration accuracy of 2-3 microns
- The size of a filter packaging box is 30*30*15 cm, and its weight is 25 kg.

Reuseble Frits

Frits made of stainless steel ,which can be cleaned ultrasonically and reused multiple time.



Our Other Technologies:





HPLC Servicing, Validation, Trainings and Preventive Maintenance:

HPLC Servicing: HPLC Servicing: We have team of service engineers who can attend to any make of HPLC promptly @the most

affordable cost.

Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-

shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments : Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.





About Analytical Technologies

Analytical Technologies Limited (ATL), is a multinational analytical group conglomerate, leading global manufacturer & exporter of Analytical, Chromatography, Spectroscopy, Biotechnology, Biomedical, Clinical Diagnostics and Material Science & General Laboratory Equipment. Main products includes HPLC, UHPLC, GC, GPC (Gel permeation chromatography), IC (Ion chromatography), HSCCC, PREP HPLC, Production and Process HPLC Chromatography purification systems, DAC (dynamic axial compression columns), HbA1HPLC, Spectrophotometers, LCMS, LCMSMS, GCMS, GCMSMS, ICPMS, ICPMSMS, LCICPMSMS, MALDI TOF MS, ICPTOF MS, TOC, liquid Particle counters, HpTLC, AAS, FTIR, SEM, XRD, Zeta particle Size Analyzers, MicroGC, XRF, Carbon Sulphur & cHNS analysers, ICPOES, OES, bomb calorimeters, DSC TGA STA THERMAL ANALYSERS, mass spectro leak detectors (MSLD), microwave digestion systems, Freeze Dryers, organic and peptide synthesisers, ultrapure water purification systems, etc, & provides Labs setups solutions on turnkey basis apart from various solutions for DSP (down stream projects). www.analyticalgroup.net

Our Products & Technologies





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- 2. Improving quality of life by offering **YOGA Training courses**, **Work shops** / **Seminars** etc.
- 3.**ANALYTICAL FOUNDATION** aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Naturecure, Health Care, Ara, Events, Camps etc.
- ▶ A portion of profit of **ANALYTICAL GROUP** Company's goes into **ANALYTICAL FOUNDATION** for the aboce noble cause.



>>> Reach us @







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