

DAU-450

DAU series

For medicine, chemistry, and food preparation

Preparative Dynamic Axial Compression Column

Model DAU-450 is an automatic packing column developed for high-pressure preparation. Constant pressurization of the packed bed enables self-packing of a high-durability column without creating voids. The slurry port enables operation by the closed system from supplying of gel to pressurized packing with ease.

Higher sealing performance is achieved by a uniquely developed sealing structure (Japanese Patent No. 3929407). It can be used in a packing cycle for long periods. This column is entirely free from electric parts and therefore, safety use in explosion-proof area is possible. The column, manufactured in Japan, corresponds to IQ/OQ validation. We ensure a thorough support system for the maintenance and supply of consumables.

It is possible to select from various packing materials depending on the preparative object. Preparation and purification will be realized to your satisfaction together with a group of products designed exclusively by YMC.

| Main Characteristics | | |
|--------------------------|--------------------------------|--|
| Product number | DAU-450-700 | |
| Inner diameter | 450 mm | |
| Packed bed length | 100 - 400 mm | |
| Maximum pressure | 7 MPa | |
| Compression | Constant pressurization | |
| Temperature | 10 - 40 deg C | |
| Installation height | Over 4 m | |
| Dimensions | 1500(W) × 1400(D) × 2500(H) mm | |
| Weight | About 2500 kg | |
| Utility | 0.5 MPa dry air | |
| Maximum Packing material | 40 kg | |

Recommended packing material:

Silica-based packing material (spherical/irregular) 20 μm and larger

Resistance to solvent:

Ordinary solvents used in reverse phase and normal phase HPLC



Specifications

| Na | me | Preparative Dynamic Axial Compression Column DAU-450 |
|------------|--------------------|--|
| Product | number | DAU-450-700 |
| Body | Size | Inner diameter = ϕ 450 mm, Length = 700 mm |
| | Inner finishing | Electrolytic polishing after honing process |
| | Roughness | Ra ≤ 0.5 |
| Filter | Material | SUS316L (Sintered wire-mesh filter) |
| | Frit size | 2 μm |
| | Material | PTFE |
| Cool | Туре | Uniquely developed sealing structure |
| Seal | Feature | Packing seals effectively in response to inner pressure of column. |
| | | Easy replacement |
| Calindan | Source | Airdriven hydraulic pump |
| Cylinder | Туре | Stainless steel rod, Oil cylinder |
| | Switching valve | Change orientation of Cylinder alignment (UP, DOWN, HOLD) |
| Operation | Pressure Regulator | Adjust pressure of Oil pump |
| | Pressure meter | Monitoring air operation and oil pressure |
| Wetted | material | SUS316, SUS316L, PTFE |
| | Inlet/Outlet | 1/2" Swagelok tube fitting |
| Connection | Slurry port | ISO 1S Sanitary ferrule |
| | Air | φ 10 One-touch fittings |

Option

| Product n Pum Slurry Container Wetted m | Feature | Slurry can be carried in closed system. |
|---|-----------------|--|
| | Product number | SC-140-45 |
| | Pump | Airdriven diaphragm pump |
| | Wetted material | SUS316, SUS316L, PTFE, PFA |
| | Inner finishing | Electrolytic polishing |
| | C | Column connection: ISO 1S Sanitary ferrule |
| | Connection | Air connection: φ 10 One-touch fittings |
| Cylind | er Oil | USDA, NSF H1 approved oil is available. |

For more information or to place an order, please contact us. Please feel free to ask our specialists about products or service.



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Worldwide Availability

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