DAD-800

DAD series

For medicine, chemistry, and food preparation

Preparative Dynamic Axial Compression Column

Model DAD-800 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.

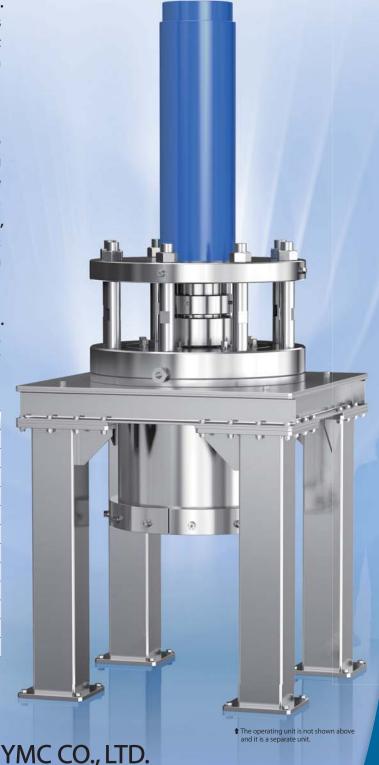| Main Characteristics	
Product number	DAD-800-850
Inner diameter	800 mm
Packed bed length	100 - 500 mm
Maximum pressure	7 MPa
Compression	Constant pressurization (DAC)
Driving direction	Downward *
Temperature	10 - 40 deg C, Below 50% RH
Installation height	Over 5.5 m (Hoist is required)
Dimensions	Inquiry
Weight	About 8000 kg
Utility	0.5 MPa dry air
Maximum Packing material	130 kg

Recommended packing material:
Silica, Organic/inorganic hybrid silica 20 μm and larger

Resistance to solvent:
Ordinary solvents used in reverse phase and normal phase HPLC

＊It is easy to unpack and collect gels from the bottom of column by moving the cylinder down.

⬆ The operating unit is not shown above and it is a separate unit.

YMC CO., LTD.

Specifications

Name		Preparative Dynamic Axial Compression Column DAD-800
Product number		DAD-800-850
Body	**Size**	Inner diameter = ϕ 800 mm, Length = 850 mm
	Inner finishing	Electrolytic polishing after honing process
	Roughness	Ra ≤ 0.5
Filter	**Material**	SUS316L (Sintered wire-mesh filter)
	Frit size	2 μm
Seal	**Material**	PTFE
	Type	Uniquely developed sealing structure
	Feature	Packing seals effectively in response to inner pressure of column.
		Easy replacement
Cylinder	**Source**	Air-driven hydraulic pump
	Type	Stainless steel rod, Oil cylinder (Painted steel)
	Required air	MAX 3000 NL/min *
	Relief valve	Overpressure measures
Operation	**Switching valve**	Change orientation of cylinder alignment (UP, DOWN, HOLD)
	Pressure regulator	Adjust pressure of oil pump
	Pressure meter	Monitoring air operation and oil pressure
	Emergency stop	Stop supplied air
Wetted material		SUS316, SUS316L, PTFE
Connection	**Inlet/Outlet**	1" Swagelok tube fitting
	Slurry port	ISO 1S sanitary ferrule
	Air	ϕ 10 one-touch fitting

＊The above specifications are subject to change due to installation environment.

Option (It is recommended to use a slurry container at the time of pouring slurry.)

Slurry container	**Feature**	Slurry can be carried in closed system.
	Product number	SC-600-60
	Pump	Air-driven diaphragm pump
	Required air	MAX 600 NL/min
	Wetted material	SUS316, SUS316L, PTFE, PFA
	Inner finishing	Electrolytic polishing
	Connection	Column connection: ISO 1S sanitary ferrule
		Air connection: ϕ 10 one-touch fittings
Agitator		Required air: MAX 830 NL/min
Powder transfer device		Air-driven device
Cylinder 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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