

ID50mm DAC Column



The DAC (dynamic axial compression) column adopts latest design by ATL. The piston of column always produces a stable pressure on packing bed which can effectively prevent the collapse and loose of the column bed.

The Characteristic of DAC column:

Short length, Large inner diameter, Pancake shaped. The length of the preparative column is similar with the analysis one, about 20cm to 50cm. It is far shorter than the open column which length is always more than 1m. Besides, its inner diameter is 10mm to 1000mm, so there will be no high pressure at high flow rate, the separation cycle of the pure material will be shorter and the yield will be higher.

Small packing material particle size, Narrow distribution. We can get higher column efficiency by using 10"20 μ m spherical porous packing material with narrow pore and particle size distribution instead of the big particle size (40"200 μ m) irregular one with wide distribution to pack the preparative column. Usually the theory plate can reach 20000 per meter. In suitable condition it can reach 40000 per meter just like the analytical column.

Packing process. It is difficult to packing a column more than 50mm by high pressure slurry packing method, in order to pack small particles into larger preparative column evenly, we always use column bed compression technique. As the DAC columns have been applied more each day in preparative chromatography, more and more research is concerned with the DAC performance and reproducibility, the result is the column efficiency is influenced by packing material character, slurry solvent character, pressure etc.

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ID50mm DAC column	
Dimensions	500mm×500mm×1900mm
Weight	100kg
Inner diameter	50mm
Total column length	500mm
Max. bed height	300mm"NP 0.3kg packing material; RP 0.39kg packing material)!
Filter	Material: 316L Pore size: 3~5μm
Distributor	Two, in piston and column bottom, Material: 316L Distribution mode: Divergent
High pressure seal	Material: PTFE+316L
Design pressure	10Mpa
Operating temperature	5~60℃
Control Panel	air pressure gauge, oil gauge, regulating valve, Emergency stop switch, Change direction valve, Shut"off valve
Air source	≥6bar, output≥0.5m ³ /min
Column tube material	316L
Column bracket material	304
Roughness	Inner surface Ra≤0.4μm, outer surface Ra<1.6μm
Inlet diameter	1/16"
Outlet diameter	1/16"
Air inlet diameter	Φ8

▶▶▶ Regulatory compliances



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