



Empty chromatography columns for lab scale

Reference guide



Column name	Empty PD gravity-flow column	C column	Tricorn™ column	XK column	HiScale™ column
Main features	Plastic columns for operation using gravity flow	Economical columns for low-pressure operation	A high-pressure stable column with dimensions that are suitable for small-scale purification	A well-established column suitable for many different purification needs	Facilitated column packing with axial compression capabilities and column measurement scale
Max. operating pressure	Not applicable	1 bar*	50/100 bar depending on size of column*	3/5 bar depending on size of column*	20 bar*
Max. bed volume of the largest column in the range	13 mL	520 mL	50 mL	1860 mL	785 mL
For use with	Gravity flow	Stand-alone pump or chromatography system	Chromatography system	Stand-alone pump or chromatography system	Chromatography system
Number of adapters supplied with the column	Not applicable	Ordered separately	1 adapter included	1 adapter included	2 adapters included
Available as prepacked column	Yes (PD-10 Columns, GraviTrap™)	No	Yes (Tricorn GL)	Yes (HiLoad™)	Yes (On-demand packing†)

Base matrix compatibility

Affinity chromatography	Sepharose™ 4B, 6B, CL-4B, CL-6B Sepharose High Performance (HP) Sepharose 4 Fast Flow (FF), Sepharose 6 FF MabSelect™, MabSelect Xtra, MabSelect Prisma, MabSelect SuRe™ Capto™	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
Desalting/buffer exchange	Sephadex™ Superfine Sephadex Fine, Medium, Coarse	● ●	● ●	● ●	● ●
Size exclusion chromatography (gel filtration)	Superdex™ prep grade Sepharose 2B, 4B, 6B, CL-2B, CL-4B, CL-6B Sephacryl™ Superose™ prep grade	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●
Ion exchange chromatography	Sepharose CL-6B Sepharose HP Sepharose 4 FF, Sepharose 6 FF, Sepharose XL Capto Capto ImpRes, Capto S ImpAct SOURCE™ 15 SOURCE 30 Sephacel™ Sephadex A-25, A-50, C-25, C-50	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●
Hydrophobic interaction chromatography	Sepharose CL-4B SOURCE 15 Sepharose HP Sepharose 4 FF, Sepharose 6 FF Capto	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
Multimodal chromatography	Capto Capto ImpRes	● ●	● ●	● ●	● ●

* See page 2 for more information. Pressure conversion from bar to psi and MPa is shown on page 2.

† HiScale columns can be packed on-demand with the resin of your choice—contact your GE Healthcare Life Sciences representative.

‡ 10 µm net ring should be used

● = recommended ● = combination is possible, but not recommended ● = not recommended



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Packing HiScale, XK, and Tricorn chromatography columns with Capto and MabSelect resins



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Column name	Max. operating pressure			Column inner diameter (mm)	Approx. min. and max. bed volumes (mL)*	Bed heights min. and max. (mm)*
	bar	psi	MPa			
Tricorn 5/20	100	1450	10	5	0.0–0.5	0–26
Tricorn 5/50	100	1450	10	5	0.2–1.1	8–56
Tricorn 5/100	100	1450	10	5	1.2–2.1	58–106
Tricorn 5/150	100	1450	10	5	2.1–3.1	108–156
Tricorn 5/200	100	1450	10	5	3.1–4.1	158–206
Tricorn 10/20	50	725	5	10	0.0–2.1	0–26
Tricorn 10/50	50	725	5	10	0.0–4.4	0–56
Tricorn 10/100	50	725	5	10	3.6–8.4	46–106
Tricorn 10/150	50	725	5	10	7.6–12.3	96–156
Tricorn 10/200	50	725	5	10	11.5–16.2	146–206
Tricorn 10/300	50	725	5	10	19.4–24.1	246–306
Tricorn 10/600	50	725	5	10	42.9–47.6	546–606
HiScale 10/40	20	290	2	10	8–31	100–400
HiScale 16/20	20	290	2	16	0–40	0–200
HiScale 16/40	20	290	2	16	16–80	80–400
HiScale 26/20	20	290	2	26	0–106	0–200
HiScale 26/40	20	290	2	26	69–212	130–400
HiScale 50/20	20	290	2	50	0–393	0–200
HiScale 50/40	20	290	2	50	274–785	140–400
XK 16/20	5	72.5	0.5	16	0–31	0–155
XK 16/40	5	72.5	0.5	16	16–70	80–350
XK 16/70	5	72.5	0.5	16	76–130	380–650
XK 16/100	5	72.5	0.5	16	136–190	680–950
XK 26/20	5	72.5	0.5	26	0–66	0–125
XK 26/40	5	72.5	0.5	26	45–186	85–350
XK 26/70	5	72.5	0.5	26	204–344	385–650
XK 26/100	5	72.5	0.5	26	363–504	685–950
XK 50/20	3	43.5	0.3	50	0–274	0–140
XK 50/30	3	43.5	0.3	50	0–559	0–280
XK 50/60	3	43.5	0.3	50	500–1088	260–560
XK 50/100	3	43.5	0.3	50	1274–1862	650–950
C 10/10	1	14.5	0.1	10	0–7	0–80
C 10/20	1	14.5	0.1	10	0–14	0–180
C 10/40	1	14.5	0.1	10	16–30	200–380
C 16/20	1	14.5	0.1	16	0–36	0–180
C 16/40	1	14.5	0.1	16	8–77	40–380
C 16/70	1	14.5	0.1	16	69–137	348–680
C 16/100	1	14.5	0.1	16	129–197	640–980
C 26/40	1	14.5	0.1	26	21–202	40–380
C 26/70	1	14.5	0.1	26	181–361	348–680
C 26/100	1	14.5	0.1	26	340–520	640–980
Empty Disposable PD-10	–	–	–	–	≤ 13	–

*The min. values correspond to a packing performed with two adapters.