

## Five things to consider when evaluating downstream continuous capture chromatography:

### Simplicity: System Simplicity

Just because it is cutting edge technology, doesn't mean it has to be complex. Even if your productivity gain is tremendous from your multi-column system, your manufacturing and quality colleagues will not be happy with you if the scale-up system is complex and presents both operational and validation risks. You can minimize your production risks and achieve improved productivity with a simple and elegantly designed, multi-column chromatography system. Less is more.

### Flexibility: A system that operates in batch as well as continuous modes

Budget demands necessitate acquiring the most bang for the buck. Will your system run existing batch as well as continuous operational modes? Will you have an under-utilized system that is difficult to justify? Do you have the space for equipment that can only be used for continuous process development? Look for a flexible system that can maximize your asset utilization by doing both batch and continuous operation.

### Scalability: Can it scale?

Of course you need a solution that scales seamlessly to manufacturing volumes and you expect both bench and production models to be available. But has the piping, hold-up volume and bed height been taken into account as it is scaled from small to large capacity? For instance, if the column bed height at small scale is 5 or 6.7 cm, is direct scale-up possible when going to production volumes? Can you reproducibly pack your larger columns at that bed height, or should you be using the same bed heights in process development that are practical at full scale?

### Valve – ability: Valves; what kind, how many?

Less is better here – both in number of valves and hold-up volume. Make certain you are using the system with the fewest number of valves to reduce down-time risk and validation concerns. Fast-acting is good too. The speed at which valves on multi-column system switch is critical to separation precision and productivity optimization.

### Productivity and selectivity: choice of chromatography media and column hardware

Think if you had a small GMP compliant system that produced 1, 2 or even 3 kg mAb/day with 10 cm ID Protein A columns. Or the same system with 20 cm Column that processes 2000 L feed /day. And that same platform allows you to use your current columns and resins to ensure transfer to continuous processing goes smoothly for your products.

## Voice of EcoPrime® Twin users

"The skid performed well, the footprint is small and the pumps were quiet and worked very well.

Controls are simple and straightforward"

"The EcoPrime system had a small footprint, allowing it to be very compatible .....

The overall build quality was excellent as well"



"Overall, the EcoPrime Twin 100 performance was more than satisfactory"

"Valve performance In short: fantastic.

...outperforming most equipment that I have worked with"

"This is one of the most attractive skids that I have worked with.

The skid is obviously engineered with quality and appearance in mind"

"I found the Twin 100 to be very robust. The build quality is fantastic"

**LEWA**

### Simply more.

**Twin-column chromatography in a simple, robust design.**

**Flexible platform:**

- Continuous mode
- Batch mode
- Wide flow range
- Buffer in-line dilution option



**Learn More**

**LEWA**

### Double duty.

- Twin column chromatography
- Batch & continuous
- Simple & robust



**Learn More**

More: Contact [ecoprime@lewapt.com](mailto:ecoprime@lewapt.com)

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