

Manufacturing at Kilo Scale



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Kilo Scale Manufacturing

ZeTO*1

100 l alloy 59
250 l glass lined

Filter, drying unit

Distillations,
Low Temperature

-100°C up to 200°C
up to 6 bar

Multipurpose

cGMP
reg. intern., APIs



REDMOND

20 – 100 l reactors

Filter, drying unit

Distillations,
Chromatography

-70°C up to 200°C
up to 10 bar

Multipurpose

cGMP
reg. intern., APIs

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Kilo Scale Manufacturing - cGMP



ZeTO cGMP Kilolab in Leverkusen, Germany

■ Reactors

- 100 l Alloy 59, electro-polished
- temperature range: -100°C up to 50°C, up to 16 bar
- 250 l glass lined
- temperature range: -65°C up to 250°C, up to 6 bar

■ Isolation and drying units

- 2 glass filters, size: 20 / 100 l (0,1/ 0,3 m²)
- Filter (glass lined), size: 30 l (1,4 m²)
- Drying unit (stainless steel), size: 150 l (2,1 m²)

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Kilo Scale Manufacturing - cGMP



cGMP Kilolab in Redmond, USA

- 2 cGMP Kilolabs with 2 walk-in hoods
- 1 bench-height hood each
- 50/100 l glass reactors and 50 l separation vessel
- 12 l pressure reactor
- 20 l rotary evaporators
- 30 cm centrifuge
- 120 cm chromatography column



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