

Manufacturing at Pilot Scale



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Pilot Scale Manufacturing

REDMOND

200 – 800 l reactors

Filter, drying unit

Distillations

-70°C up to 200°C
up to 4 bar

Multipurpose

cGMP
reg. interm., APIs

ZeTO 1

250 – 630 l reactors

Filter dryer, rotary
dryers

Distillations,
HCN, CO, COCl₂

-100°C up to 200°C
up to 6 bar

Multipurpose

cGMP and ISO
reg. interm., APIs



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Pilot Scale Manufacturing – Redmond

Flexible and fast manufacturing of your clinical material

- **Reactors**

200, 400 and 800 l glass-lined reactors

400 l Hastelloy C22 reactor

400 l glass-lined receivers

Temperature -70°C to +120°C

Pressure up to 16 bar

- **Separation and isolation**

Aurora Hastelloy C22 65 cm filter

75 cm centrifuge

Sparkler Pressure filters (5 bar)

- **Drying and finishing**

Vacuum tray dryers (individually isolated)

Fitz mill for particle size reduction



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Pilot Scale Manufacturing – ZeTO 1

- MZA 1 and MZA 3 - two lines dedicated to cGMP production
- State of the art equipment for your demand up to 50 kg batch size



400 I reactors and distillate receivers

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Pilot Scale Manufacturing - ZeTO 1/MZA 3



State of the art equipment for your demand up to a batch size of approximately 50 kg

- Clean Room for product discharging and packaging

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Pilot Scale Manufacturing - ZeTO 1/MZA 3



- State of the art equipment for your demand up to a batch size of approximately 50 kg
- Repackaging station

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