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PLANNING A GMP FACILITY EXPANSION?

*Review documented
project performance*

Large-scale biologics production cannot rely on isolated freezers

When uptime, GMP compliance and pipeline expansion are critical, ULT must function as infrastructure and not just equipment.

LOWENCO modular ULT solutions are preferred and deployed inside regulated pharmaceutical production environments where:

- Temperature stability is critical
- Operational uptime needs to be above 99,99%
- Redundancy is a must and built-in

Designed for multi-module configurations, our solution operate as integrated infrastructure supporting continuous GMP production.

- ❄ Delivered with engineering partners
- ❄ Integrated into facility-level master planning
- ❄ Commissioned within defined project timelines





220

Large-scale
Installations
Worldwide

Total installed
chamber volume:

1,056,000
liters



Largest cumulative
customer deployment

51
LSSU units

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Up to

25

years in
operation

99,99%

documented uptime

100%

of units
operational after
12+ years

3 - 24 hours

on-site response time

+

immediate

remote support



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LARGE- CAPACITY

infrastructure
projects

**Largest
single-site**

deployment:

24

integrated LSSU units

Delivered within a new
**GMP production
facility**



Typical
deployment scale:

6 – 12

modules per project

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Engineered for
continuous

GMP OPERATION

**N+1
redundancy**
architecture



**Monthly
remote**
performance monitoring

**2 annual
preventive
maintenance
Site visits**

**Structured
validation
support**
in GMP environments

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DESIGNING A NEW GMP PRODUCTION FACILITY?

Review documented deployment data and technical architecture.



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