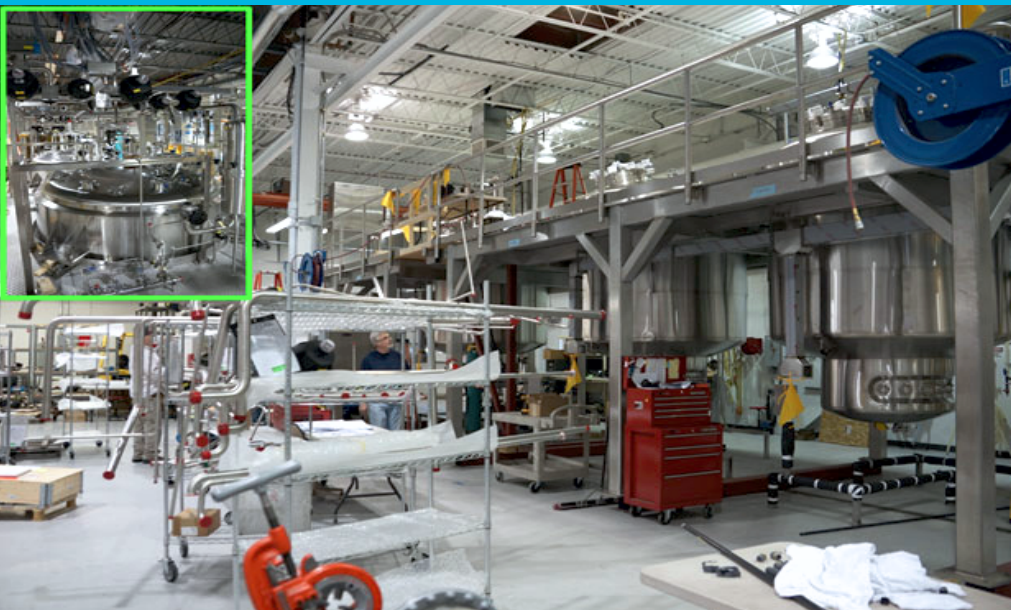


Large Scale Cell Culture Pre-Viral & Post-Viral "Super Skids"

Confidential Client



exentec

BioPharma Solutions

Pharmaceutical / Biopharmaceutical

SECTOR OF ACTIVITY:

Biopharmaceutical

CLIENT:

Confidential Client

YEAR OF COMPLETION:

2016

SKID DIMENSIONS:

(2) 48'L x 14' W x 15' H

EXENTEC PROJECT VALUE:

Confidential Value

PROJECT EQUIPMENT

(Including, but not limited to):

- (5) 6,000 L vessels with ZG8 mixer
- (1) 1,000 L vessel with ZG6 mixer
- (1) 4,000 L vessel with ZG8 mixer
- (5) 3x30" liquid filter, .2 micron

Structural mezzanine / platform

SOFTWARE / COMMUNICATIONS

- By Owner

SERVICES PROVIDED

(Including, but not limited to):

- Preliminary flow diagrams
- Schematic piping diagrams
- General arrangements
- Catalog information, cuts, etc.
- Shop detail drawings
- Driver description
- Instrument location drawings
- Conduit routing plans
- Instrument loop drawings
- Wiring schematics
- Skid interconnection details
- Inspection schedule
- Weight list of fabricated parts
- Equipment calculations
- Performance curves
- Structural design calculations
- Factory approval tests
- Welding file documents/weld maps
- Instrument calibration sheet
- Boroscope inspection report
- Surface finish documentation
- Maintenance manuals

MANDATE

Exentec was retained to design & fabricate pre-viral & post-viral "super skids" for a confidential client as part of a manufacturing expansion project. Confidential client specializes in product development services to the pharmaceutical and biologic industries via contract manufacturing (CMO) & custom manufacturing of biopharmaceuticals, chemical synthesis capabilities, as well as detection systems and services for the bioscience sector.

PROJECT SCOPE

Exentec's main project scope included furnishing both skids and their components, excluding the vessels (furnished by owner). Project challenges included designing each system appropriately considering physical constraints of the large footprint. As the line sizes were so large, any modifications required in the design provided more challenges and considerations to mitigate piping conflicts.

Please contact our sales department for details or for a quote.

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