



PHARMACEUTICAL & COSMETICS COMPANY

CLIENT: Confidential

PROJECT: To supply and install 6,000 Litre & 3,000 Litre Mixing Vessel System.

VALUE:
£1 Million



ONE (1) X 6,000 LITRE & ONE (1) X 3,000 LITRE REACTOR MIXING VESSELS

The vessel is fitted with spiral baffled split steam jackets, one covering the shell section and one covering the bottom of the vessel with the ability to take chilled water at 6°C straight after steam cycle.

There is a spring loaded manway and interlock set up designed to minimise crush risk to fingers etc. A removable manway grill with an interlock system and hanger was supplied with a interlock to 'park' grill when not in use.

Each vessel fitted with a simple "prop" type top-entry agitator fitted complete with non-flushed mechanical seals (suitable to the customers requested products).

The new Mixing Vessel System was fitted with the latest generation energy saving ancillaries (e.g., drive motors, bearings, frictionless belt systems).

Each vessel designed to a minimum batch size equating to 20% of its maximum operational capacity, with the phase vessel being able to process smaller batch sizes or premix amounts.

New proposed equipment, pipework and valves will have the ability to handle products with a viscosity of up to 170,000 CPS.

ATEX classification of Zone 1 inside the Vessel and Zone 2 outside the Vessel included with all associated plant/equipment.

- CREATION OF ONE (1) X PRODUCTION SUITE
- ONE (1) X CONTROL SCREENS PACKAGE FOR I PANEL
- ONE (1) X 3,000 LITRE REACTOR MIXING VESSELS
- ONE (1) X 6,000 LITRE REACTOR MIXING VESSELS
- ONE (1) X FULL CONTROL SYSTEM COMPLETE WITH DATA LOGGING
- ONE (1) X PROJECT MANAGEMENT PACKAGE
- ONE (1) X CONTROL SCREENS PACKAGE
- ONE (1) X DOCUMENTATION PACKAGE
- ONE (1) X HEALTH & SAFETY PACKAGE
- ONE (1) X COMMISSIONING PACKAGE
- ONE (1) X BESPOKE ACCESS GANTRY COMPLETE WITH UP & OVER PALLET LOADING SYSTEM
- ONE (1) X HIGH SHEAR MIXER
- ONE (1) X CDM PACKAGE



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REACTOR MIXING
VESSELS**

Design

Material without contact with the product will be 304

Insulation 80 mm mineral wool on shell and bottom

Material in contact with the product will be 316L

Coil on shell and bottom - pressure 3 bar

Pressure in the tank -1/+2 Bar

Internal surface Ra $\leq 0.8 \mu\text{m}$

Bolted type lid arrangement

External surface 240 gr

Diameter - 1,700mm

Height - 2,500mm



S4 ENGINEERING LTD

12 Phorpres Close, Cygnet Park,
Hampton, Peterborough,
PE7 8FZ.

t: +44 (0) 1733 602977

e: sales@s4engineering.co.uk