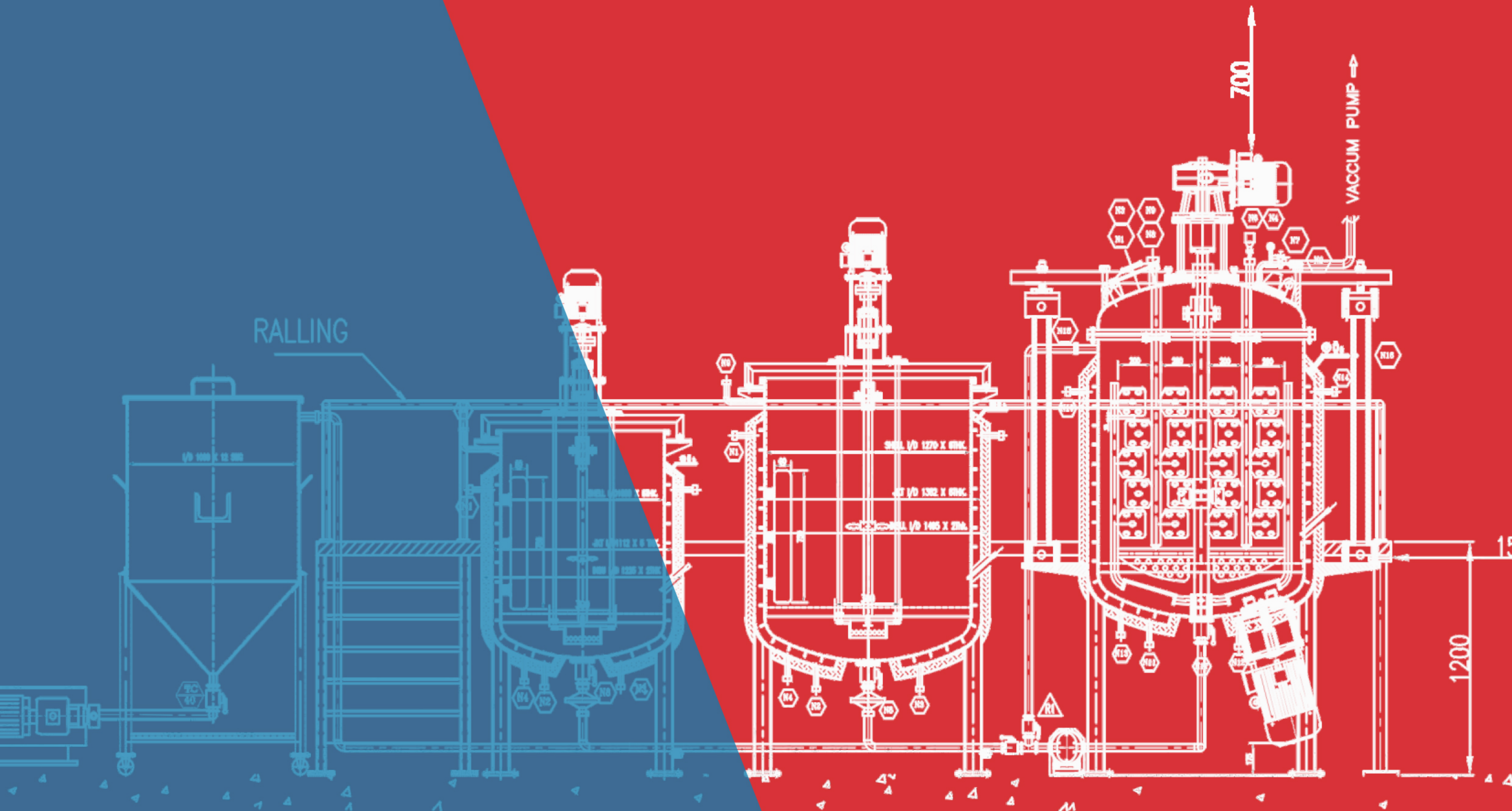




Ointment & Liquid Oral Plant





Cream & Ointment Manufacturing Plant

Application

Pharmaceuticals | Cosmetics

- Creams Emulsions
- Gels Lotions
- Ointments Gels
- Biotech Shampoo, Toothpaste



Concept

Basic ingredients for the ointment/ gel / tooth paste is glycol , water & wax .The calculcated volume of glycol is heated in the jacketed Vessel & the required quantity of wax is melted in a jacketed Vessel .These ingredients are then transferred in to Manufacturing Vessel where the ACTIVE Ingredients are added to produce the ointment /gel or cream.

Salient Features

- The water phase & wax phase have high shear mixers & the Manufacturing Vessel is installed with an Anchor agitator with an high shear homogenizer / emulsifier
- Heating / cooling and insulated jackets complete with temperature control and safety equipment
- Contra Rotary agitator for high viscose products

- Short loop product Re-Circulation for smaller batch sizes
- Hydraulic lifting on manufacturing vessel top dish to facilitate product recovery
- Process piping with transfer panel design for automated plants
- Cleaning in place cycle with validation protocols
- PLC based operations with automation , recipe administration & visualization
- Vacuum Line fully flushed for sanitation purposes

• Outputs

- Highly efficient processing with significantly reduced batch times.
- Pre-stored process parameters give high batch-to-batch consistency.
- Capacity ranges from 20 kgs to 5000 kgs



Liquid Oral Manufacturing Plant

The Liquid Oral Plant is also referred as Syrup Manufacturing Plant

Application:

- Syrups
- Oral Liquids
- Suspensions



Models range from : 50 L to 20000 Ltrs capacity in fully automatic untouched process or in semi-automatic models as per GMP / c-GMP manufacturing standards with validation documents.

The Plant include

- | | |
|------------------------------|---------------------------------|
| ■ Sugar Melting Vessel | ■ Manufacturing Vessel |
| ■ Storage Vessel | ■ Online sugar Syrup pre Filter |
| ■ Vacuum system for transfer | ■ Zero hold up Filter |
| ■ Top & Bottom Entry Mixer | ■ Transfer Pumps |
| ■ PLC Control Panel | |

Salient features

- Three Tank Process : Sugar Melting Vessel – Manufacturing Vessel – Storage Vessel
- The Tank can be mounted on Legs or Lugs as required
- Stirrer/ impeller type high speed stirrers, paddle type slow speed stirrer for low viscous liquids & anchor type stirrer for high viscous liquids.
- Jacket or Limpet for steam heating. All Vessels are insulated
- Homogenizer for Homogenous Online / Inline Mixing of Products / Suspensions Bottom homogenizer / stirrer optional.
- Electro-polished interconnecting pipeline and TC fittings for Easy cleaning & Assembly
- Complete untouched process optional with auto transfer of products & ingredients.
- Optional vacuum arrangement provided on requirement
- In built CIP system for cleaning and washing of vessels from inside
- Load cell – level indicators can be integrated with system
- Optimised design & fully Automated PLC based operations ensure minimal manual handling
- Complete documentations & certificates to ensure compliance with regulatory bodies with DQ, OQ, IQ, FAT & SAT



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