



KUMAR's ECO PURE BLEACHER



SUPERIOR BLEACHING FOR HIGH QUALITY AND ECONOMIC VIABILITY

Kumar's EcoPure Bleacher is a compact single vessel for the preparation and bleaching with earth slurry. Its efficient design couples mechanical agitation with sparging steam for better contact between the oil and bleaching earth.

Joint venture with



WORKING PRINCIPLE

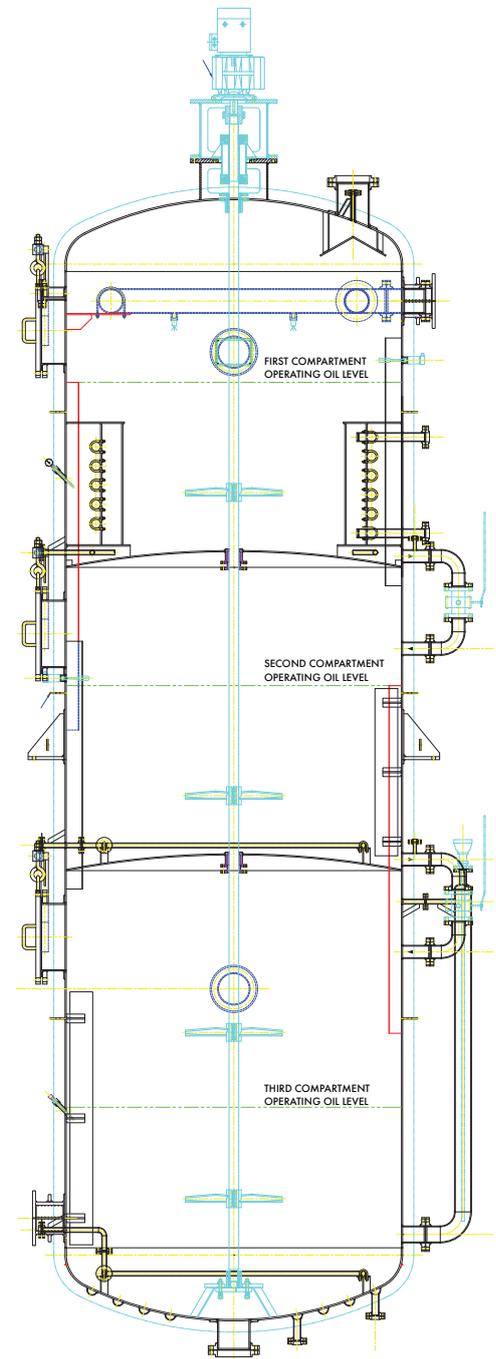
Feed oil is heated and mixed with phosphoric or citric acid in a high shear mixer and transferred to the conditioning reactor and held for a predetermined time. The slurry is fed into the Bleacher and retained for 40 – 60 minutes to facilitate absorption in a vacuum of 710 mm Hg.

The mechanical agitator and sparging steam create better contact between oil and bleaching earth, increasing the absorption efficacy of the colouring pigment and efficient removal of impurities.

Finally, the slurry is sent to the vertical pressure leaf filter to separate spent earth and bleached oil and passed through the polishing filter. Bleached oil is stored in the oil storage tank and sent for further processing. The spent cake is dried with steam blowing to recover more oil.

FEATURES

- Vacuum vessel with dished heads, multiple agitated compartments, agitator with mechanical seal, sight glasses and manways.
- PLC controlled bleaching earth dosage.
- Efficient automated filter operation.
- Operates under vacuum to ensure complete moisture/air removal.
- Slurry preparation under vacuum
- Zero carryovers of the bleaching earth into the vacuum system.
- Steam blowing results in maximum oil recovery and lowest retention of oil in spent earth.
- Low consumption of bleaching earth and utilities.
- Mechanical agitation from top to bottom compartment.
- Sparging steam agitation in retention compartment-provide wet bleaching effect.



ABOUT KUMAR

Kumar Metal Industries is a process engineering company manufacturing advanced Oil Mill, Solvent Extraction and Edible Oil Refining plants for companies all over the world. What started as a small fabrication unit in 1939, has grown into an industry favourite that employs over 400, with 20,000 sqm of factory space spread over two locations.

Through our hard work, integrity and emphasis on superior engineering and service, we've gained the trust of more than 500 customers spread over 60 countries worldwide.



KUMAR METAL INDUSTRIES PRIVATE LIMITED

Turnkey Solutions: Oil Mills | Edible Oil Refineries | Solvent Extraction Plants

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