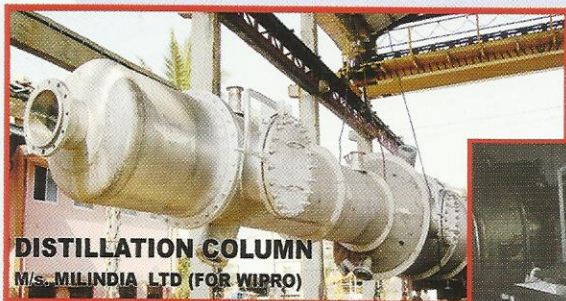




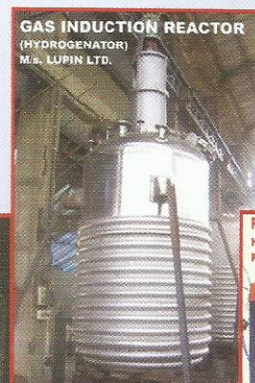
Sunrise

Process Equipments

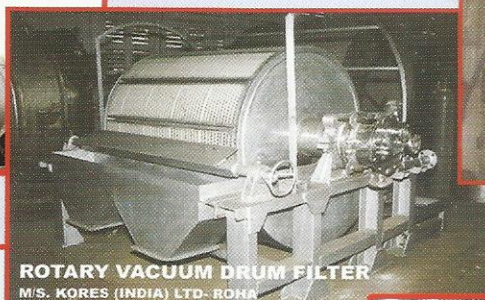
An ISO 9001: 2008 Certified Company & CE Marking Company
 OFFICE : 102, SHREE RAMESHWAR TOWER - A SHIMPOLI ROAD,
 NEAR GOKHALE HIGH SCHOOL, BORIWALI (W), MUMBAI - 400 092, INDIA.
 TEL.: +91-22-2899 3705/06/07
 FACTORY : PLOT NO. J-187/ J-188 MIDC, Tarapur, Boisar, Dist. Thane - 401506
 TEL.: +91 - 2525 - 605367 / 605368
 E-MAIL : speqco@gmail.com, Web.: www.sunriseequipments.com



DISTILLATION COLUMN
 M/s. MILINDIA LTD (FOR WIPRO)



GAS INDUCTION REACTOR
 (HYDROGENATOR)
 M/s. LUPIN LTD.



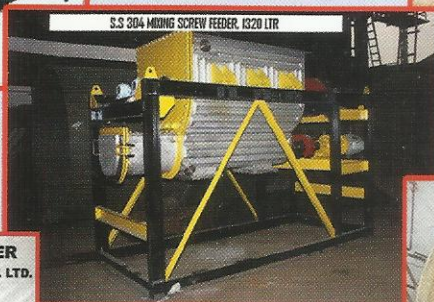
ROTARY VACUUM DRUM FILTER
 M/S. KORES (INDIA) LTD-ROHA



PLANATORY MIXER
 HEMRL,
 PUNE



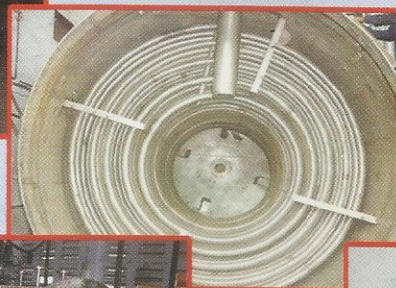
BOILER WATER PRE- HEATER-73.8 SQ MTR



S.S 304 MIXING SCREW FEEDER, 1320 LTR



ROTARY VACUUM DRYER
 M/s. CHEMSPEC CHEMICALS PVT. LTD.



NUTCH FILTER
 M/s. LUPIN LTD.



SAND FILTERS ACTIVATED CARBON FILTERS

MANUFACTURERS OF :

- REACTORS ► HOLLOW SHAFT HYDROGENATORS / GAS INDUCED HYDROGENATORS ► HEAT EXCHANGERS ► FLAKERS & DRUM DRYERS
- ROTARY VACUUM DRYERS ► FLUIDIZED BED DRYERS ► VIBRATORY FLUID BED DRYERS (CONTINUOUS)
- DISTILLATION COLUMNS / PACKED COLUMNS ► BUBBLE CAP COLUMNS ► RIBBON BLENDERS ► FILTER NUTCHES ► CLARIFIERS
- AGITATED NUTCH FILTERS ► SCRUBBERS ► Planetary Mixers ► SCREW CONVEYORS ► SEPARATORS ► STORAGE TANKS
- NAUTA MIXERS ► BALL MILLS & other fabricated Equipments in M.S., S.S. 304, S.S 316, Copper, Hestalloy C, Inconell, Aluminium.

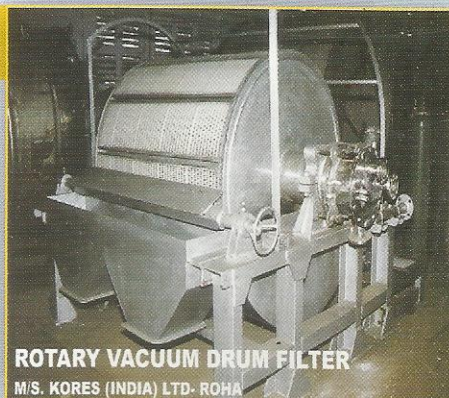


Distillation Column

It is used to recover different liquids having different boiling point. The boiling points are reduced with application of vacuum. The internal packing can be structured packing or wire mesh bundles or others. The HETP (Height Equivalent to theoretical plate) will vary as per the internal packing type. The diameter and height is determined by the capacity per hour and purity of product required. Depending upon the packing type, there can be multistage packing.

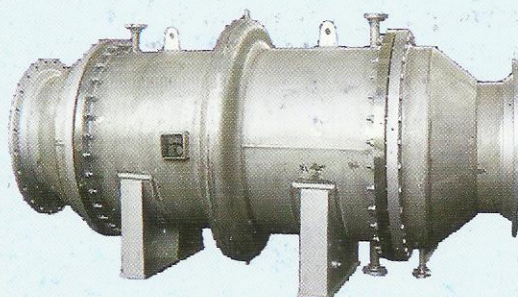
Rotary Vacuum Drum Filter (RVDF)

This is a continuous filter. A slurry is fed into a trough equipped with an agitator so that solids do not settle at bottom. Due to vacuum inside the drum section, liquid is sucked into the drum pipe and solid is deposited over the filter cloth. Washing can be done with water/ solvent, at other side of the drum and again vacuum is applied to that portion. The specially designed rotary valve, is provided for creating different segments for vacuum and atmospheric air for proper filtration. The product is at consistent quality and continuous operation.



ROTARY VACUUM DRUM FILTER
M/S. KORES (INDIA) LTD- ROHA

BOILER WATER PRE- HEATER-73.8 SQ MTR



Pre Heater

This heat exchanger uses the waste heat to pre heat the boiler water. To avoid thermal shock, Expansion bellow is provided. Various materials of construction can be used here.

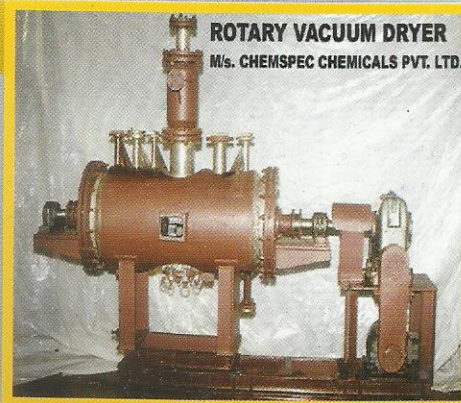


Flaker

To convert lumpy solids into easy handling flakes, a flaker machine is used. The material is molten and kept in a trough, suitably heated to desired temperature. A flaker drum rotates thro the trough picking up a layer of molten mass. It is cooled on top side with cold water thro inside spray nozzles. The mass is scrapped by a knife blade at other end and collected in bags.

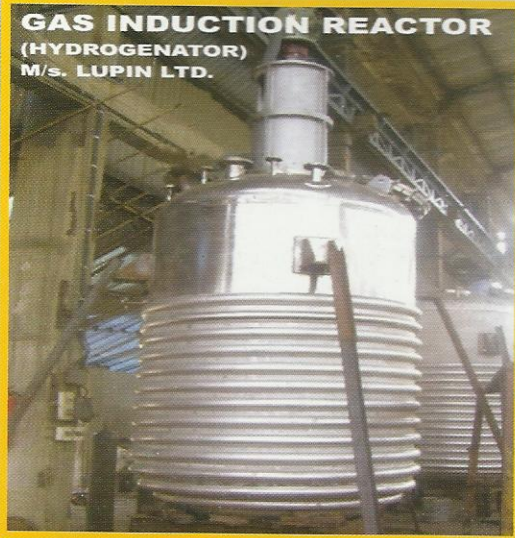
Rotary Vacuum Dryer (RVD)

This dryer is an efficient way of drying pasty materials or even slurries. A Jacketed or limpeted shell is fixed and rotor shaft rotates at certain rpm. The scrappers keep the drying surface fairly clean, allowing good heat transfer. With vacuum application, the boiling point of solvent is tremendously reduced. This allows the product to be dried at a reduced temperature. Even solvent recovery can be done initially in this equipment and then the subsequent paste/ slurry is dried to powder form. The total drying time is much less in this dryer. The power requirement is also less and labour requirement is much less.



GAS INDUCTION REACTOR (HYDROGENATOR)

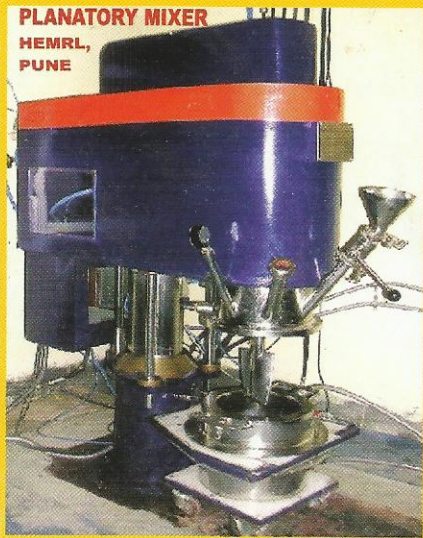
M/s. LUPIN LTD.



Gas Induction Reactor (Hydrogenator)

This is a novel technology for reactions like hydrogenation. Due to the proprietorship design of the agitator, fine bubbles of gas are created. This gives enormous mass transfer area, increasing the reaction efficiency, decreasing by products and reducing batch time. This equipment can be manufactured from a capacity 10 lit to 20 KL and in various materials of construction. Inside cooling coils can be provided for further heat transfer.

PLANATORY MIXER
HEMRL,
PUNE

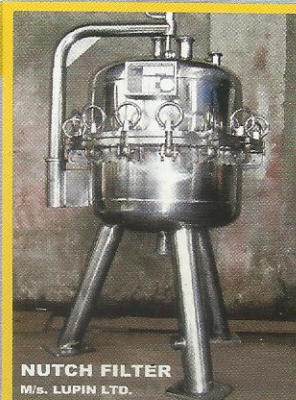


Planetary Mixer

This type of heavy duty mixing equipment is used for mixing homogeneously, high solid content mass, upto 84% - 85% solids. The solid blades are so designed that two or three blades almost scrap each other and also the bowl. With high vacuum inside the mixer, the mass is crevices free. Generally, it is used for mixing explosives mixtures, having very high energy inside.

Pressure Filter/ Nutch Filter.

The pressure filter is used to filter liquids containing traces of solids. On top side, there is pressure due to pump pressure and lower side, there is vacuum, giving extra driving force. The filter cloth can be cleaned faster due to devit arm and eye bolts system. It can be made in GMP/ C-GMP construction.



Bubble Cap Column

30 Trays with Cooling Coil For Each
Tray IN SS 304

Pilot Plant Reactor

Pilot Plant Reactor SS 316, With Multi Blades

