

5 EFFECT MEE-CAPACITY : 200 KLD



ZLD-ZERO
LIQUID
DISCHARGE
&

MEE-MULTIPLE
EFFECT
EVAPORATORS

Nowadays, ZLD is the requirement of Pollution Control authority. Here the main objective is to nullify the effluent outflow from any industry. In ZLD concept an industry has to Recover and Reuse all the effluent water generated in their process after proper Treatment & Purification. There should not be any resultant liquid effluent discharge from the industry. For that purpose, the effluent water generated by a process industry has to be treated in an Effluent Treatment Plant (ETP) and the pure water is to be recovered using Reverse osmosis (RO) plant followed by Multiple Effect Evaporator (MEE) so as to process the RO Reject.



5 EFFECT MEE-CAPACITY : 300 KLD IN CIVIL STRUCTURE

In order to comply with ZLD norms of Pollution Control Board, the available choice is to go for EVAPORATION Using MEE after the RO.

The reject water from RO is concentrated for their dissolved salts using a MEE plant and are precipitated in a Forced circulation evaporator or Adiabatic Chiller Crystallizer based on their solubility characteristics. The solid salts thus recovered are filtered using a centrifuge & Recycled. the final filtrate solution so called Mother Liquor(ML) is dried up in a ATFD.

CAPACITY -20 KLD



SKID MOUNTED EVAPORATOR- THE MOST ECONOMICAL PRODUCT

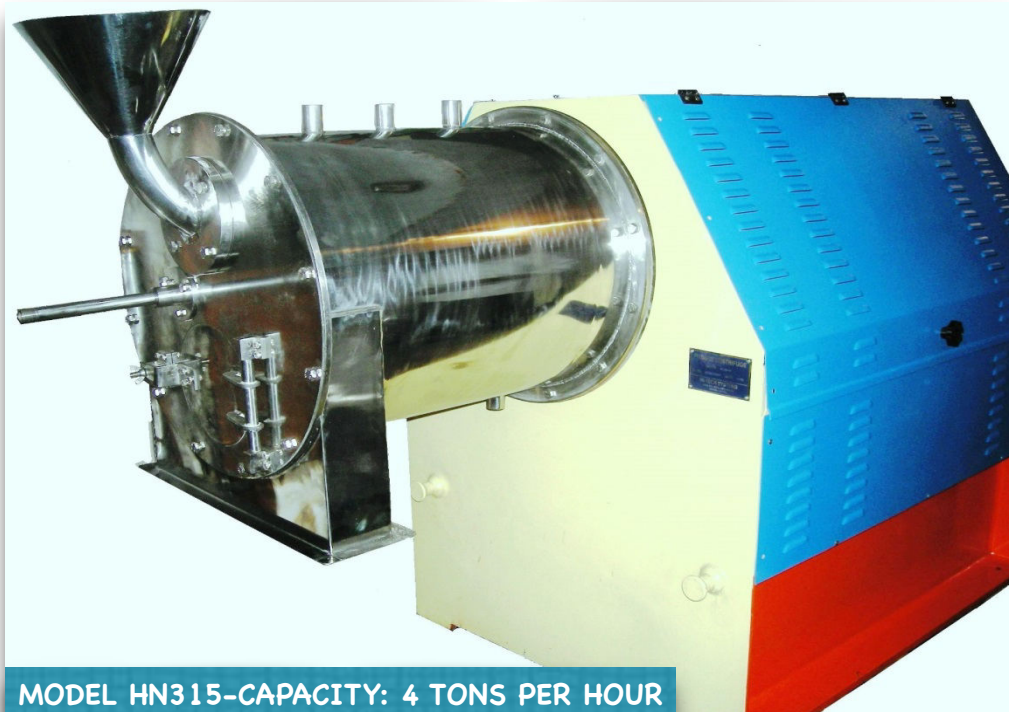
Skid mounted evaporators are considered to be the most economical product. It is a Pre-Fabricated Evaporator Unit that allows easy site installation without extensive foundation work. As only minimum piping is required, such as input and output connections, it saves time and energy. One of the attractive features is the low maintenance cost. The customer can operate this equipment in any condition and therefore, there is an increasing demand for skid mounted evaporators.

CAPACITY -15 KLD



EASY TRANSPORTATION





MODEL HN315-CAPACITY: 4 TONS PER HOUR



SALT EXTRACTION

CONTINUOUS PUSHER CENTRIFUGE & SALT EXTRACTION



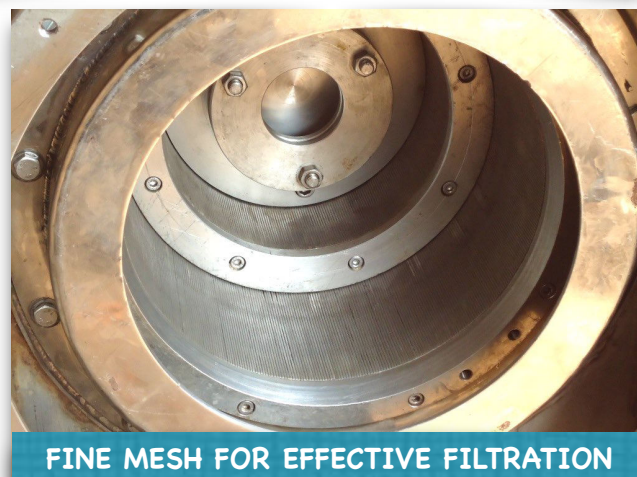
GLAUBER SALT WITH 99% PURITY



MODEL HN230-CAPACITY: 2 TONS PER HOUR



TEAM OF EXPERTISE



FINE MESH FOR EFFECTIVE FILTRATION

Used for separation of solids such as salt crystals from their mother liquor in continuous fashion with high output capacity. This machine is well suited for filtrations of crystalline salts such as Sodium Chloride, Sodium Sulphate, Glauber's Salt, Ferrous Sulphate, Magnesium Sulphate etc.



CAPACITY -250 LPH

Agitated thin film Dryers are successfully employed with difficult-to-handle MEE rejects that are highly viscous that conventional plants can no longer meet user demands as the heat transfer is insufficient. Simply stated, the method quickly separates the volatile from the dissolved salts using indirect heat transfer and avoids scaling by mechanical agitation of the flowing product film under controlled conditions.

- Used to dry a solution of high TDS Water or Products
- High evaporation rates, due to highly turbulent film and large difference in temperature
- Outlet of ATFD will be in the Powder form having >1% moisture

ATFD-AGITATED THIN FILM DRYER



SCRAPPER BLADES



RECOVERED DRIED SALT