



Anhydro MicraVap 100

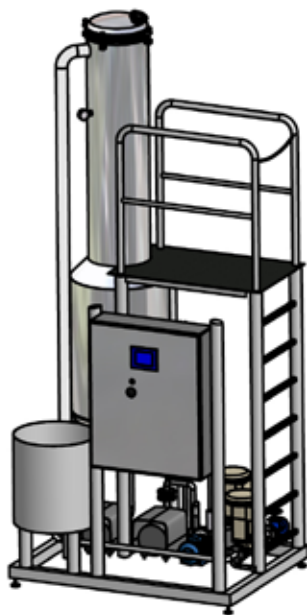
The evaporator is designed for continuous evaporation of liquid products in laboratory and small-production scale. The unit consists of a vertical tubular calandria, separator and a tubular condenser.

All components are pre-mounted on a stainless steel skid.

The calandria has a top-mounted liquid distributor, which can be easily accessed for inspection.

Equipment Specification

- Feed System
- Calandria
- Vapour Separator and Duct
- Heating
- Condenser System
- Pipe System
- Support Structure
- Control System
- Instrument Panel
- Power Supply



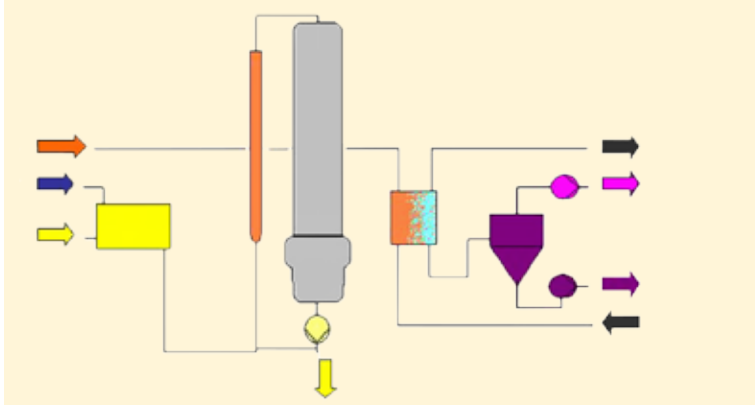


The feed product is transported by means of vacuum from the feed tank into the vapour separator unit. A control valve situated on the side of the feed tank controls the flow into the vapour separator. From the vapour separator the product is sucked further down through the middle of the unit, while being thermally heated with vapour.

When the heated feed reaches the top it is sent down the heated tubes, where the evaporation takes place. Vapour is separated from the concentrate in a separator covering the base of the evaporator unit. The vapour is condensed by means of cooling water in an indirect condenser.

The concentrate is extracted from the bottom of the calandria and separated by means of a pump. From the bottom of the steam jacket of the calandria and the condenser, the condensate is removed by a pump. Vacuum is supplied by a water ring vacuum pump connected to the condenser.

Process flow



Technical data

Process Design Data:

Feed Rate	125 kg/h
Solids in Feed	9 %
Water Evaporation	100 kg/h
Concentrate Rate	25 kg/h
Solids in Concentrate	45 %
Jacket Temperature	68 °C
Boiling Temperature	60 °C

Consumption Data*:

Steam	120 kg/h
Installed Power, pumps	3 kW
Cooling Water	3 M3/h

Basis for Calculation:

Feed Product temperature	50 °C
Steam Pressure at plant (gauge)	3 Bar
Cooling Water (in/out)	9/45 °C
Power Supply	3x380/50 V/Hz

Dimensions:

Floor Space :	1.20m x 1.60m
Height:	3.60m

*Figures valid within a tolerance of +/- 5%

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