

Double Effect Concentrator



Double effect concentrator is suitable for pharmaceutical, chemical and dairy industries. It is used for evaporation and concentration of water/solvent. It has simple structure, convenient operation and maintenance. The whole process is completed in a vacuum sealed system, and the heat energy is reused. It not only saves energy and protects the environment, but also has the advantages of low evaporation temperature and high evaporation intensity.

- Machine Advantages -

Compare with single effect evaporator, it have the following advantages:

- Can save 50% steam consumption.
- Can save 50% cooling water consumption.

- Machine Structure -

This equipment is including the following units: first effect heating tank, first effect evaporator tank, second effect heating tank, second effect evaporator tank, gas/water separator, condenser, sub-cooler, collection tank. and pipeline.

- Technology data Specification -

Model	SX500	SX1000	SX1500	SX2000	SX3000
Evaporate capacity (kg/h)	500	1000	1500	2000	3000
First effect evaporated temperature (°C)	75-85				
Second effect evaporated temperature(°C)	55-65				
First effect heating area (m ²)	6.2	12.2	18.5	24.4	37
Second effect heating area (m ²)	6.2	12.2	18.5	24.4	37
Condenser cooling area (m ²)	14	28	42	56	84
Sub-cooler cooling area (m ²)	2	3	3	5	6
Steam consumption (kg/h)	275	550	825	1100	1650
Cooling water consumption (T/H)	16	30	45	50	90
Vacuum air absorption capacity (m ³ /h)	≥125	≥250	≥375	≥500	≥750
Dimension L*W*H (mm)	4800*1100*3750	5950*1200*4650	6300*1350*4750	6800*1550*4850	7500*1800*5800

*Above model just for reference, we can do according to client's URS *