Falling Film Evaporator

Falling Film evaporator is to feed the liquid raw material from the top end of heating tank and distribute it evenly to the inside heat exchanger tubes wall through the liquid distribution and film-forming device. Under the action of gravity and vacuum induction and airflow, it flows uniformly from top to bottom. In the process of flow, the steam produced by heating and vaporizing the shell side medium enters to the evaporator (separator) tank together with the liquid phase. The vapor and liquid are fully separated. The vapor gas enters the condenser condensation (as a single effect operation) or enters the next effective evaporator as the heating medium (as a muti-stage effect operation). The concentrated liquid phase is discharged from the evaporator (separator) tank.

- Machine structure -

This machine including the following unit: heating tank, evaporator (separator) tank, condenser, sub-cooler, collection tank .

- Technology data Specification -

Model / Item	JMNS 200	JMNS 500	JMNS 1000	JMNS 1500	JMNS 2000	JMNS 3000
Evaporator capacity (kg/h)	200	500	1000	1500	2000	3000
Evaporator temperature (℃)	>55					
Steam pressure (Mpa)	<0.25					
Vacuum degree (MPa)	-0.08					

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