

# Multifunctional Miniature Extractor And Concentrator Machine



Multifunctional miniature extractor and concentrator machine is widely used in the studying the parameter for new process R&D, pilot plant, new medicine researchment, herb extractor, volatile oil recovery in the university, R&D center, hospital etc.

This machine have complete functions, it can be used to the aromatic oil distill extract process, water based

extract process ,solvent based extract process, thermal reflux extract process, sediment process, concentration & solvent recovery etc.

As the heating method difference, it have two models: steam heating type and electrical heating type (heat conducting oil).

## - Technology data Specification (steam heating model as example) -

Item		Model	DNT-100	DNT-200	DNT-300	DNT-500
<b>Extractor</b>	Tank Volume(L)		110	220	350	620
	Heating Area(m <sup>2</sup> )		0.52	0.96	1.12	1.5
	Jacket Pressure (MPa)		0.3	0.3	0.3	0.3
	Shell Pressure (Mpa)		ATM	ATM	ATM	ATM
<b>Multifunctional tank</b>	Volume(L)		130	230	350	620
	Heat Exchanger Area(m <sup>2</sup> )		0.7	1.5	2.0	2.9
	Agitator Motor Power (kw)		0.37	0.75	0.75	0.75
<b>Single -effect evaporator</b>	Heating Area(m <sup>2</sup> )		0.85	1.50	2.30	3.20
	Condenser Cooling Area(m <sup>2</sup> )		2.0	4.0	5.0	10
	Agitator Motor power (kw)		0.37	0.37	0.37	0.37
<b>Utilities Consumption</b>	Vacuum pump power (kw)		1.5	2.2	2.2	3.0
	Transfer pump power (kw)		0.37	0.37	0.37	0.37
	Total motor power (kw)		2.6	3.7	3.7	4.5
	Steam Consumption (kg/h)		100	150	200	250
	Cooling water consumption(T/h)		2	4	5	10
	Dimension L*W*H (mm)		2450*800*2350	2800*975*2500	3200*1050*2600	3500*1300*3050

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