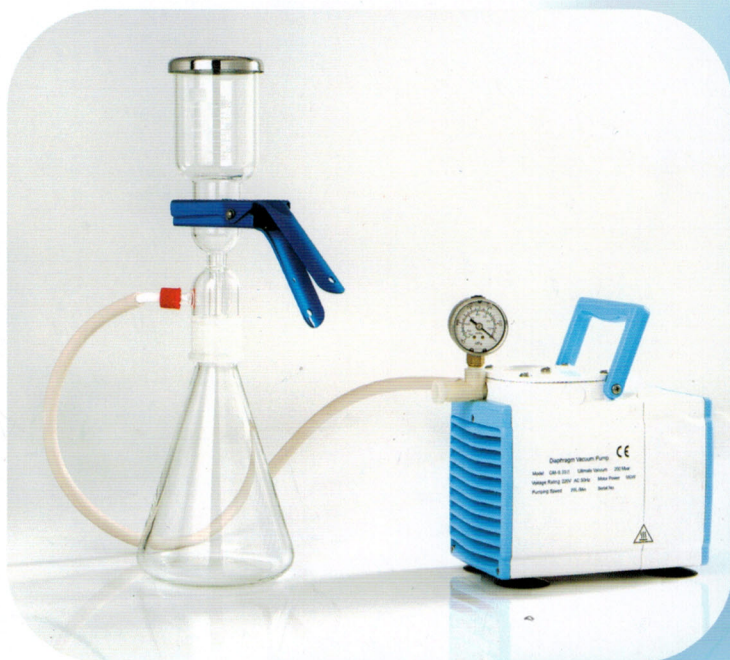


## Parts

Funnel , filter head , receiving bottle , clamp of anodized aluminum , SS lid , rubber tube(0.8m), tube connector

## Operation

- 1、 Carefully attach the filter head to the receiving bottleneck .
- 2、 Put the membrane filter on the sieve , attach the funnel to the filter head , and attach the clamp .
- 3、 Connect the rubber tube to the vacuum nozzle of pump , the other side to the tube connector of the filtration apparatus.
- 4、 Fill the solvent into the filter funnel and start up the pump . The solvent flows through the membrane in the filter head and into the receiving bottle due to the action of vacuum .



( Not including the pump )

## Specification and Membrane selection

### 1、 Specification

Model	Funnel	Pore Size of Filter	Material of Support Screen	Receiving Bottle	Suitable Membrane
T-50.1L	300ml	10 $\mu$ m	Pyrex glass	1000ml	$\Phi$ 47or $\Phi$ 50
T-50.2L	500ml	10 $\mu$ m	Pyrex glass	2000ml	$\Phi$ 60
T-50.PTFE	300ml	20 $\mu$ m	PTFE	1000ml	$\Phi$ 47or $\Phi$ 50

### 2、 Membrane Selection

The selection of the membrane is the key to achieve the best filtering effect . The membrane material must be suitable for the different characteristics of the filter medium and has to be chemical resistant against it . Available with pore size : 0.22 $\mu$ m , 0.45 $\mu$ m , 0.8 $\mu$ m and more . For 1L filter , the diameter of the membrane is  $\phi$ 47mm or  $\phi$ 50mm . For 2L filter , the suitable membrane diameter is  $\phi$ 60mm .

### 3、 Sterilization

All the solvent filtration apparatus can be autoclaved at 121 $^{\circ}$ C for 20–30 minutes or sterilized with epoxyethane etc.

## Attention

- 1、 Depending on the different characteristics of the solutions , choose the suitable membrane filter between the funnel and the filter head , align the ground part and fix with clamp .
- 2、 Press the switch to start the pump , put the solvent into the funnel to filter .
- 3、 When filtering prevent overloading the collection bottle . Solvent into the pump may be hazardous or can damage the pump .
- 4、 If there is leakage between filter head and funnel , please check whether ground part is align and the membrane is flat , and if the clamp is fixed and proper seated .
- 5、 When the flow rate decreases , check whether there are excessive impurities on the membrane affecting the filtration speed and please replace the membrane filter if required .
- 6、 The solvent filtration apparatus is fragile cargo , please do not move it entirely , and avoid taking the clamp to move .