

Thin Film Evaporator MF-10A·10B·10C

For concentrating thermal denature, foamy and highly viscous materials.



MF-10A

MF-10C

Features

- Designed for the concentration or purification of thermally sensitive materials or viscous, high boiling point samples.
- The double-walled evaporator jacket is made of borosilicate glass and this makes it possible to visually observe the evaporation process.
- MF-10B with liquid surface level sensor.
MF-10C for Max. 180°C high temperature.

Specifications

Product name	Thin Film Evaporator		
Model	MF-10A	MF-10B	MF-10C
Cat. No.	117440	117450	117460
Rotation speed	140 ~ 1200rpm (stepless)		
Evaporation capacity	1140mL/h (water)		
Ultimate vacuum	Vacuum pump capacity + 13.3hPa (1Torr)		
Temp. setting range	RT+5 ~ 90°C		RT+5 ~ 180°C
Rotation setting & display	Volume setting & digital display		
Liquid surface monitor	-	Liquid surface sensor	-
Motor	DC brushless motor 60W		
Evaporation tube	Jacket type, evaporation area 0.04m ²		SUS 304
Condenser	Vertical double helix condenser cooling area 0.3 m ²		
Receiving flask	Condensation side 1L, evaporation side 1L with drain cock		
Heating	By hot water circulator (option)		Quartz mantle heater 800W
Liquid contacting part	Borosilicate glass, Teflon or SUS 304		
Dimensions(mm) & weight	625W x 400D x 1416H 40kg		
Power source	150VA AC100V		800VA AC100V

Thin Film Evaporator F-70·150·200

Large scale thin film evaporator with max. capacity 40L/h



F-70

F-150

F-200

Features

- Continuous evaporation and collection is possible by drain cocks attached to collection vessels.
- Heating by hot water circulation in glass jacket evaporation tube realizes accurate temperature control and easy check of concentration status.
- Heating by steam is also possible (F-150·200).
- Heating time is controlled by unique control ring (PAT) to realize precise control of rotation speed and sample feeding; making the system suitable for evaporation of heat sensitive samples.

Specifications

Product name	Thin Film Evaporator			
Model	F-70	F-150		F-200
Cat. No.	117590	117700		117710
Rotation speed	140 ~ 1300rpm (stepless)	180 ~ 1800rpm (stepless)		
Evaporation capacity	1.5L/h	5.28L/h	20L/h	12L/h
Operating vacuum	2.5kPa	3.3kPa	8.0kPa	2.7kPa
Rotation axis seal	Non seal by magnetic coupling		Mechanical seal	
Evaporation tube	Glass jacket		SUS jacket	
Condenser	Vertical triple helix condenser cooling area 0.5m ²	Vertical triple helix condenser cooling area 1.33m ²		SUS multiple tube cooling area 3.0m ²
Receiving flask	3L x 2 (with drain cock)	10L x 2 (with drain cock)		20L x 2 (with drain cock)
Heating	Hot water	Hot water	Steam	Hot water
Liquid contacting part	Borosilicate glass, Teflon or SUS 304			
Dimensions(mm)	620W x 500D x 1970H	1150W x 600D x 2760H		1400W x 900D x 3050H
Power source	200VA AC100V		3.2kVA 3Φ AC200V	