

I.W. Tremont

Technical and Specialty Papers
ISO 9001:2008 Registered

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Membrane Filtration Vacuum Cups and Receiver Bottles

Filter funnel volume: 250ml
with molded graduations.

Standard vacuum port with
removable frit and reducer
pre-installed. Accepts 1/4-3/8
inch tubing.

Two receiver bottle
volumes available:
250 and 500ml

Lid easily removable and
replaceable with one hand

High flow rate membranes
in large 50mm diameter:
MCE and PES

Color coded universal 33mm
diameter neck and threading.
High quality gasketed cap
included with each unit.

Both filter cup and
receiver bottle are
ergonomically designed
and molded from
crystal styrene



*Shown here: 250ml upper cup
with 500ml receiver bottle*

- ✓ Gamma sterilized, individually sealed
- ✓ Fast flow rates, high quality membranes
- ✓ Diverse product line with many options
- ✓ Filter cup available with / without bottle
- ✓ Color coded & clearly marked
- ✓ Economical, easy to use & reliable

Perfect for filter sterilization
of general laboratory
aqueous solutions &
clarification of
chromatography buffers.



Shown left: 250ml upper cup with 500ml receiver bottle
Shown right: 250ml upper cup with 250ml receiver bottle

Filter cups are available with or without receiver bottles. Our universal design fits the neck diameter and thread pattern of most competitive supplier receiver bottles.

Step 1.
Pour sample
into filter cup and
apply lid

Step 2.
Connect
vacuum
line and turn
on vacuum

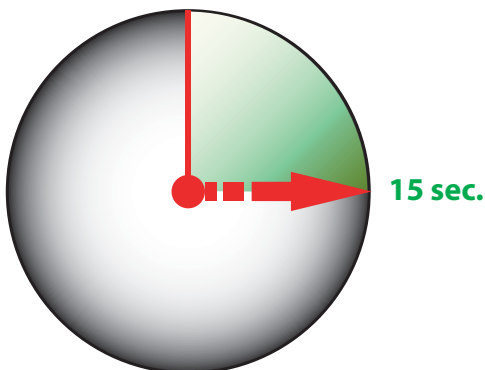
Step 3.
Turn off vacuum
and unscrew
receiver bottle

Step 4.
Screw down
receiver bottle
cap.
DONE

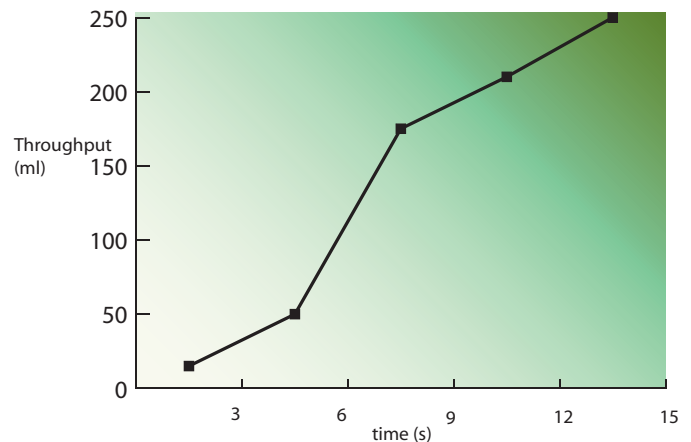
Glass microfiber prefilters are available to increase loading capacity of membrane.



Simple, reliable and cost effective means of conducting 250ml filter sterilizations in under 15 seconds.



Volume 250ml through a 0.22µm PES membrane with RO lab water at 30cm Hg. Tremont conducted average 5 units. Individual test results may vary - For reference only not specification.



Indication of volume throughput over time. Notice the membrane self wetting stage at 2-4 seconds followed by a dramatic increase in flow rate.

PES *(polyethersulfone)*

Applications:

- ✓ Sterilization and clarification of aqueous laboratory fluids. Ideal for filtration of protein solutions as the membrane demonstrates low protein binding characteristics.
- ✓ Microfiltration applications that require high flow rates as well as high loading capacity.
- ✓ The PES membrane is hydrophilic which does not require external wetting agents or surfactants.

I.W. Tremont model #: **IWT-FB-10352**
(0.22 µm porosity, UC-250ml, RC-250ml)

IWT-FB-10353
(0.45 µm porosity, UC-250ml, RC-250ml)

IWT-FB-10356
(0.22 µm porosity, UC-250ml, RC-500ml)

IWT-FB-10357
(0.45 µm porosity, UC-250ml, RC-500ml)

Description:

1. Material of construction: Funnel and bottle – Polystyrene, Screw cap - Polyethylene
2. Membrane material: PES (polyethersulfone)
3. Pore size: 0.22µm (sterilizing) or 0.45µm (clarification)
4. Membrane diameter: 50 mm
5. Funnel capacity: 250 ml
6. Bottle capacity: 250 ml or 500 ml

Closest known competitive equivalents:

Membrane Porosity	Filter funnel (UC) Receiver (RC) capacities	Tremont model no.	Company	Catalog number
0.22µm	UC-250ml/RC-250ml	IWT-FB-10352	GE HealthCare Whatman	6514-2502
			Corning	431096
			Nalgene	568-0020
			Roush	1101-RLS
			Millipore	SCGPU02RE
	UC-250ml/RC-500ml	IWT-FB-10356	GE HealthCare Whatman	6514-5002
			Corning	431097
			Nalgene	566-0020
			Roush	1102-RLS
			Millipore	SCGPU05RE
0.45µm	UC-250ml/RC-250ml	IWT-FB-10353	GE HealthCare Whatman	6514-2504
			Nalgene	168-0045
			Roush	1141-RLS
	UC-250ml/RC-500ml	IWT-FB-10357	GE HealthCare Whatman	6514-5004
			Nalgene	166-0045
			Roush	1142-RLS

(mixed cellulose ester) MCE

Applications:

- ✓ Low protein binding is ideal for filtering culture media containing sera.
- ✓ 0.45µm porosity membrane is ideal for preparing LSC cocktails.
- ✓ Ideal for sample preparation in particle analysis applications.
- ✓ Pre-filtration of aqueous solutions, general microbiological and cytology applications.

I.W. Tremont model #: **IWT-FB-10350**
(0.22 µm porosity, UC-250ml, RC-250ml)

IWT-FB-10351
(0.45 µm porosity, UC-250ml, RC-250ml)

IWT-FB-10354
(0.22 µm porosity, UC-250ml, RC-500ml)

IWT-FB-10355
(0.45 µm porosity, UC-250ml, RC-500ml)

Description:

1. Material of construction: Funnel and bottle – Polystyrene, Screw cap - Polyethylene
2. Membrane material: MCE (Mixed Cellulose Ester)
3. Pore size: 0.22µm (sterilizing) or 0.45µm (clarification)
4. Membrane diameter: 50 mm
5. Funnel capacity: 250 ml
6. Bottle capacity: 250 ml and 500 ml

Closest known competitive equivalents:

Membrane Porosity	Filter funnel (UC) Receiver (RC) capacities	Tremont model no.	Company	Catalog number
0.22µm	UC-250ml/RC-250ml	IWT-FB-10350	Corning	430767
			Nalgene	157-0020
	UC-250ml/RC-500ml	IWT-FB-10354	Corning	430769
			Nalgene	156-4020
0.45µm	UC-250ml/RC-250ml	IWT-FB-10351	Corning	430768
			Nalgene	157-0045
	UC-250ml/RC-500ml	IWT-FB-10355	Corning	430770
			Nalgene	156-4045

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