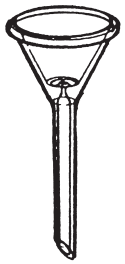
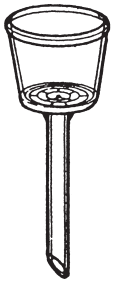
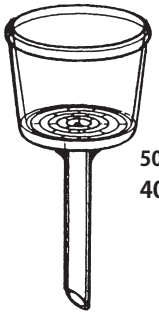
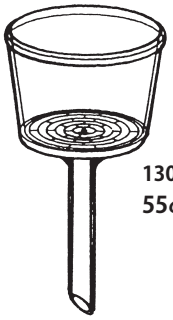
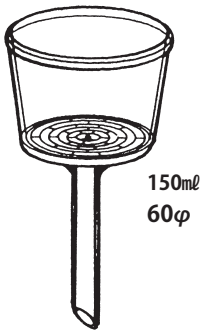
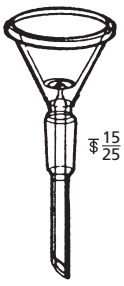
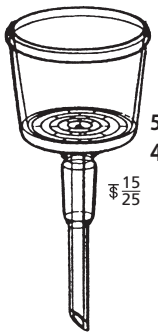
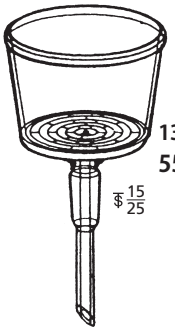
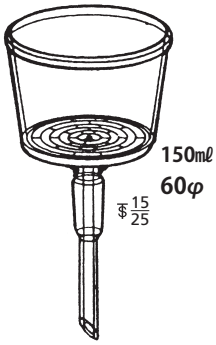
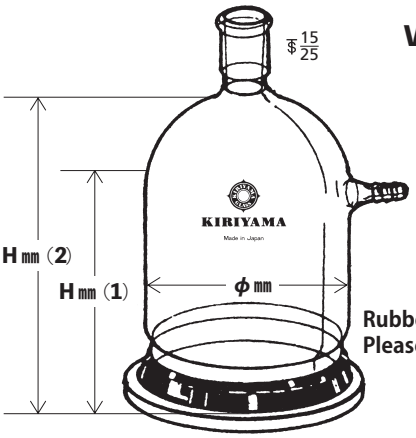
KIRIYAMA Rohto® Series Catalog

〈 Intellectual Property Pending 〉



V-8	S-21	S-40	S-55	S-60
 5mℓ 8φ	 10mℓ 21φ	 50mℓ 40φ	 130mℓ 55φ	 150mℓ 60φ
 8mm φ diameter filter paper	 21mm φ diameter filter paper	 40mm φ diameter filter paper	 55mm φ	 60mm φ diameter filter paper
No.3 -8 No.4 -8 No.5A -8 No.5B -8 No.5C -8 No.6 -8 No.7 -8 GFP-8	No.3 -21 No.4 -21 No.5A -21 No.5B -21 No.5C -21 No.6 -21 No.7 -21 GFP-21	No.3 -40 No.4 -40 No.5A -40 No.5B -40 No.5C -40 No.6 -40 No.7 -40 GFP-40	Please use commercially available 55mmφ diameter filter paper.	No.3 -60 No.4 -60 No.5A -60 No.5B -60 No.5C -60 No.6 -60 No.7 -60 GFP-60
50 pieces each 10 pieces each	50 pieces each 10 pieces each	50 pieces each 10 pieces each		50 pieces each 10 pieces each
 5mℓ 8φ ▽15/25	 10mℓ 21φ ▽15/25	 50mℓ 40φ ▽15/25	 130mℓ 55φ ▽15/25	 150mℓ 60φ ▽15/25
VB-8	SB-21	SB-40	SB-55	SB-60



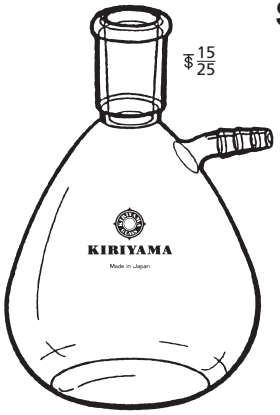
Vacuum bell jar

VKB -50

VKB -100

VKB -200

Rubber packing and glass discs are included. Please contact us regarding replacements.



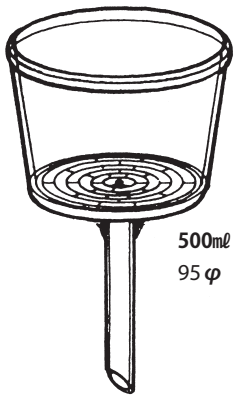
Suction flask

100mℓ
F13B-4-1

250mℓ
F13B-4-2

Please refer to page 10 for the dimensions shown in the above figure





S-95

40mmφ diameter filter paper — **50 pieces each**

No.3 -40
No.4 -40
No.5A -40
No.5B -40
No.5C -40
No.6 -40
No.7 -40
GFP-40

10 pieces each

55mm φ

Please use commercially available 55mmφ diameter filter paper.

60mm φ **diameter filter paper** — **50 pieces each**

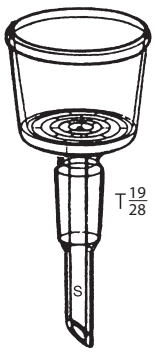
No.3 -60
No.4 -60
No.5A -60
No.5B -60
No.5C -60
No.6 -60
No.7 -60
GFP-60

10 pieces each

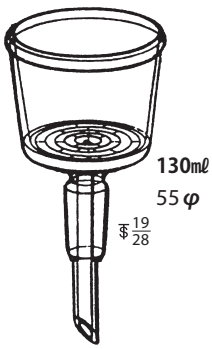
95mm φ **diameter filter paper** — **50 pieces each**

No.3 -95
No.4 -95
No.5A -95
No.5B -95
No.5C -95
No.6 -95
No.7 -95
GFP-95

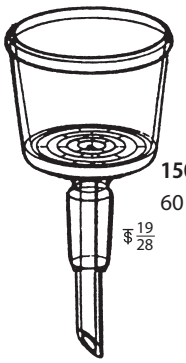
10 pieces each



SU-40

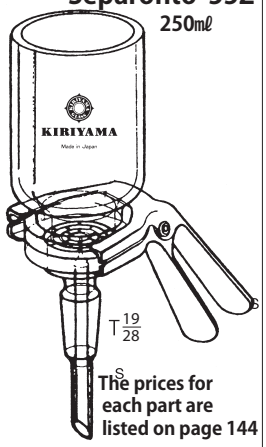


SU-55

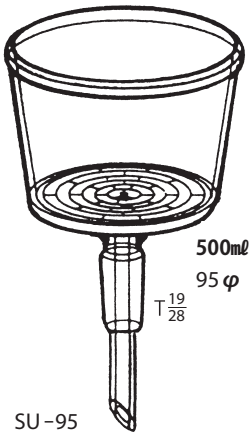


SU-60

Separohto 55Z

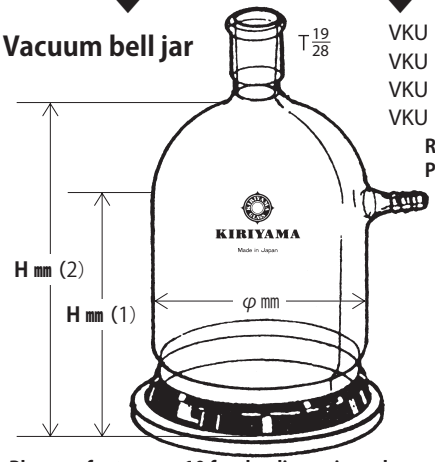


The prices for each part are listed on page 144



SU-95

Vacuum bell jar



VKU - 100
VKU - 200
VKU - 500
VKU -1000

Please refer to page 10 for the dimensions shown in the above figure

Glass Disc

Rubber packing and glass discs are included. Please contact us regarding replacements.



Liquid Receiver 1.2-liter bottle

VK-142

Compatible only with VKC-500,VKU-500

Suction flask

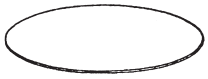


250mℓ F13B-4-3
500mℓ F13B-4-5
1000mℓ F13B-4-6
2000mℓ F13B-4-7

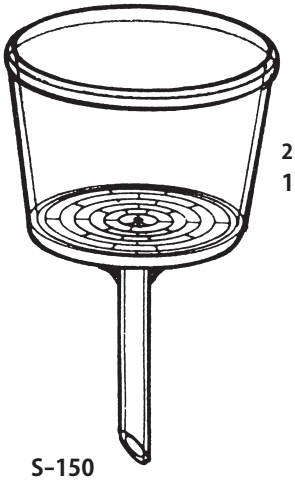
Usage instructions are on page 8.

150mm diameter filter paper
50 pieces each

- No.3-150
- No.4-150
- No.5A-150
- No.5B-150
- No.5C-150
- No.6-150
- No.7-150

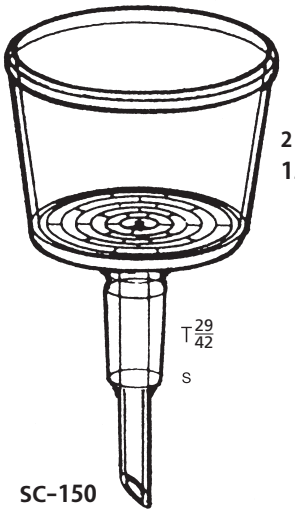


GFP-150
10 pieces each



2ℓ
150φ

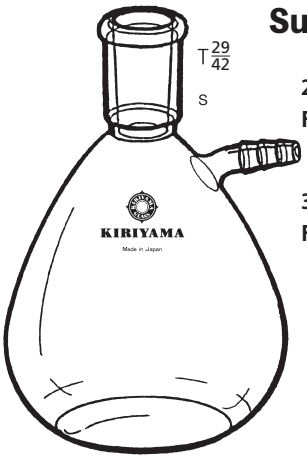
S-150



2ℓ
150φ

SC-150

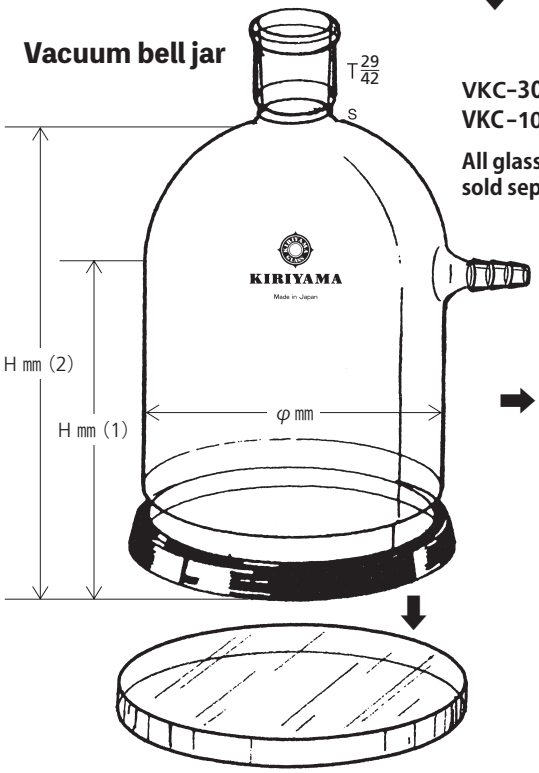
Suction flask



2000mℓ
F13B-4-8

3000mℓ
F13B-4-9

Vacuum bell jar



VKC-3000
VKC-1000

All glass discs are sold separately

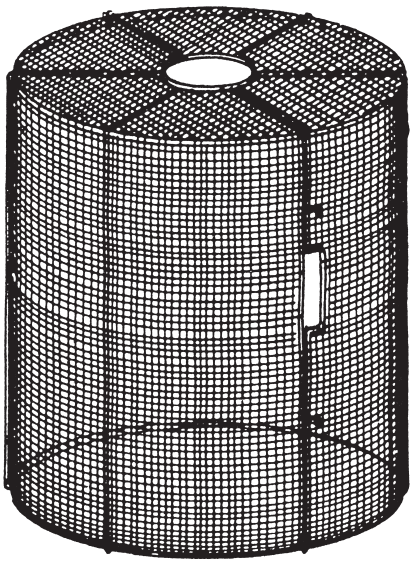
VKC-3000 Glass Disc
VKC-1000 Glass Disc

Please refer to page 10 for the dimensions shown in the above figure

VKC-500

Rubber packing and glass discs are included.





Disaster prevention wire mesh for VKC-3000

G-3000

This wire mesh storage unit can hold the VKC-3000.
Please use in combination with this product in case of accidental damage during use.

※We also manufacture Vacuum bell jars for other applications

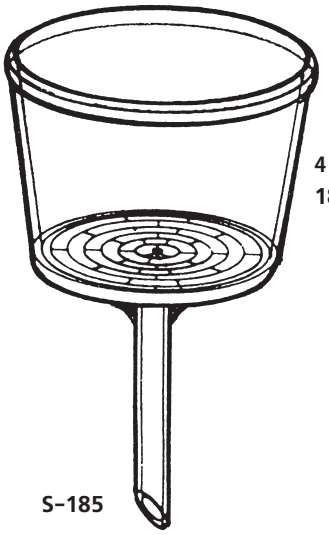
185mm

diameter filter paper
50 pieces each

No.3-185
No.4-185
No.5A-185
No.5B-185
No.5C-185
No.6-185
No.7-185

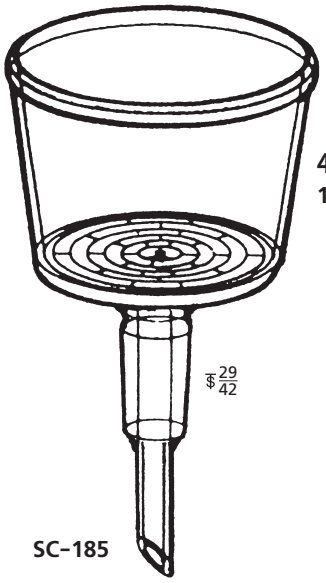


GFP-185
10 pieces each



4ℓ
185φ

S-185



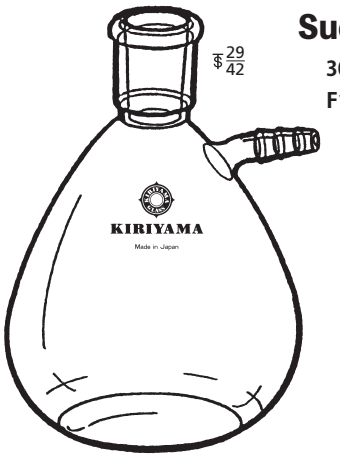
4ℓ
185φ

$\overline{\$}\frac{29}{42}$

SC-185

Suction flask

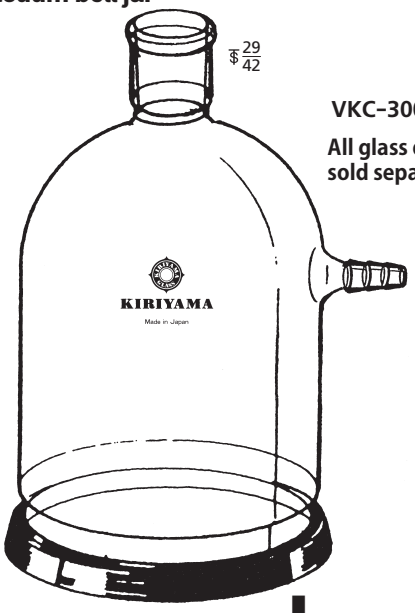
3000 mℓ
F13B-4-9



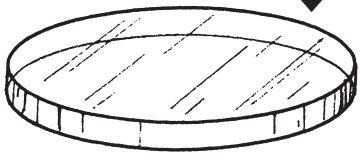


5-liter bottle
VK-143
※VKC-3000 only
Discontinued product

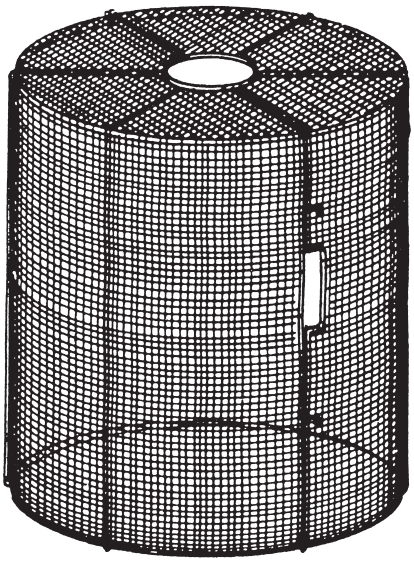
Vacuum bell jar



VKC-3000
All glass discs are sold separately



VKC-3000 Glass Disc



Disaster prevention wire mesh for VKC-3000

G-3000
This wire mesh storage unit can hold the VKC-3000.
Please use in combination with this product in case of accidental damage during use.

※We also manufacture Vacuum bell jars for other applications

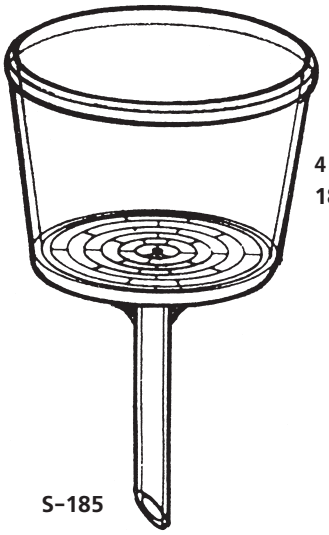
185mm

diameter filter paper
50 pieces each

No.3-185
No.4-185
No.5A-185
No.5B-185
No.5C-185
No.6-185
No.7-185

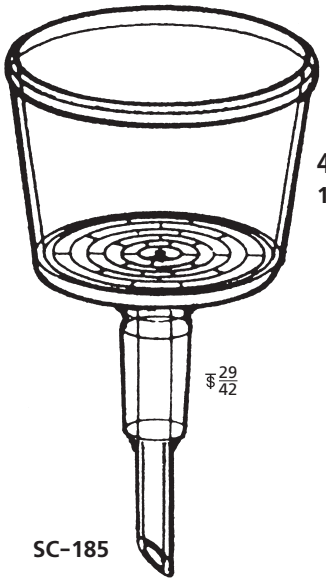


GFP-185
10 pieces each



4ℓ
185φ

S-185



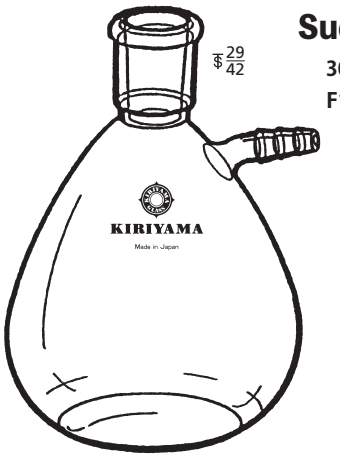
4ℓ
185φ

$\overline{\$}\frac{29}{42}$

SC-185

Suction flask

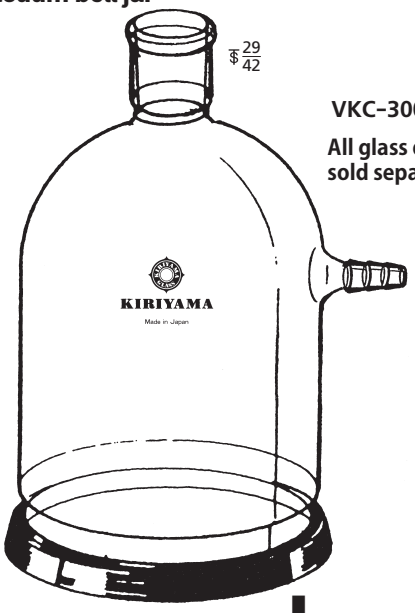
3000 mℓ
F13B-4-9



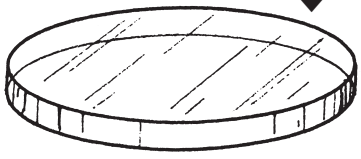


5-liter bottle
VK-143
※VKC-3000 only
Discontinued product

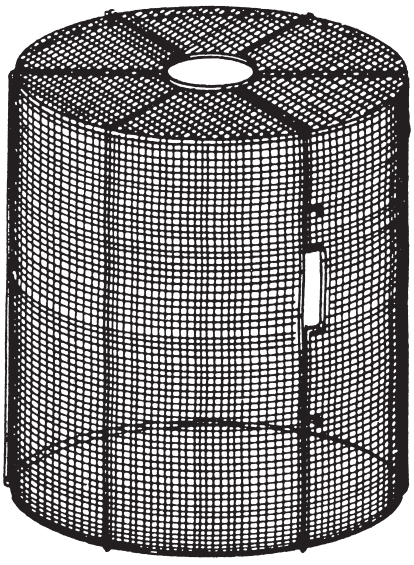
Vacuum bell jar



VKC-3000
All glass discs are sold separately



VKC-3000 Glass Disc



Disaster prevention wire mesh for VKC-3000

G-3000
This wire mesh storage unit can hold the VKC-3000.
Please use in combination with this product in case of accidental damage during use.

※We also manufacture Vacuum bell jars for other applications

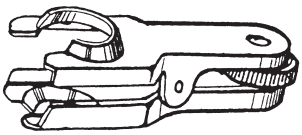
Separohto 85Z

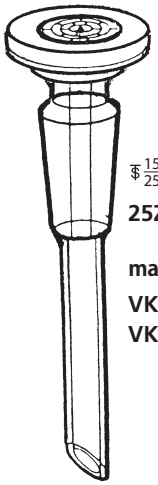
Separohto 25Z SET



25Z-144-1
Cups(20 mℓ)

25Z-144-3 Clips





$\overline{\$}\frac{15}{25}$

25Z-144-2 Base unit

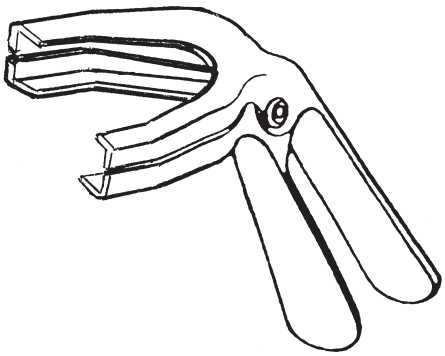
matching size for Vacuum bell jar
VKB- 50
VKB-100

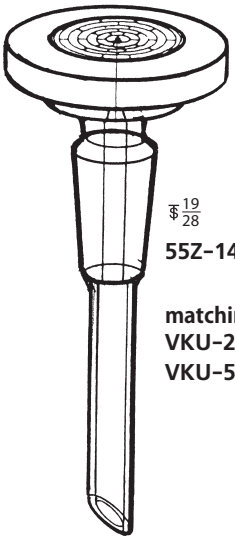
Separohto 55Z SET



55Z-144-1 Cups (250mℓ)

55Z-144-3 Clips





$\overline{\$}\frac{19}{28}$

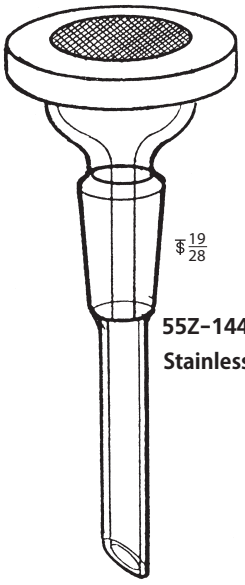
55Z-144-2 Base unit

matching size for Vacuum bell jar
VKU-200
VKU-500

Filter paper diameter (mm)	25 φ	47 φ • 60 φ
Compatible Separohto	**Separohto25Z**	**Separohto55Z** 〃 **55Z-3** 〃 **55Z-4**
Types of filter paper compatible with Separohto	No.3 ×25 No.4 ×25 No.5A ×25 No.5B ×25 No.5C ×25 No.6 ×25 No.7 ×25 GFP-25	SS-47 No.3 ×60 No.4 ×60 No.5A ×60 No.5B ×60 No.5C ×60 No.6 ×60 No.7 ×60 GFP-60
Packaging (1 box)	50 sheets (GFP 10 sheets)	50 sheets (SS-47 100 sheets GFP 10 sheets)
Price (1box)	GFP	SS GFP

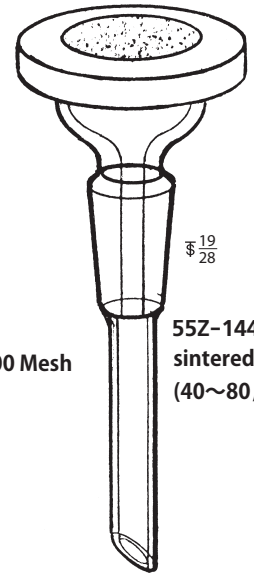
GFP is glass fiber filter paper.

SS is a cellulose filter paper for measuring suspended solids



$\overline{\$}\frac{19}{28}$

55Z-144-5
Stainless Steel Screen 100 Mesh

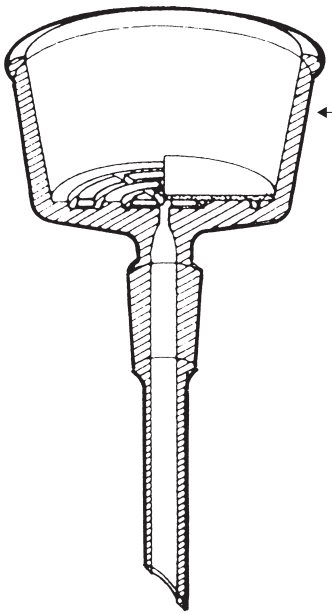


$\overline{\$}\frac{19}{28}$

55Z-144-4
sintered glass filter
(40～80μm)

This base unit features a stainless steel screen type compatible with 47φ membrane filters and includes a sintered glass filter.
When equipped with the $\overline{\$}\frac{19}{28}$ attachment, compatible suction hoods are the VKU-200 and VKU-500.
Additionally, cups, clips, etc., can be used interchangeably with the aforementioned Separohto 55Z.

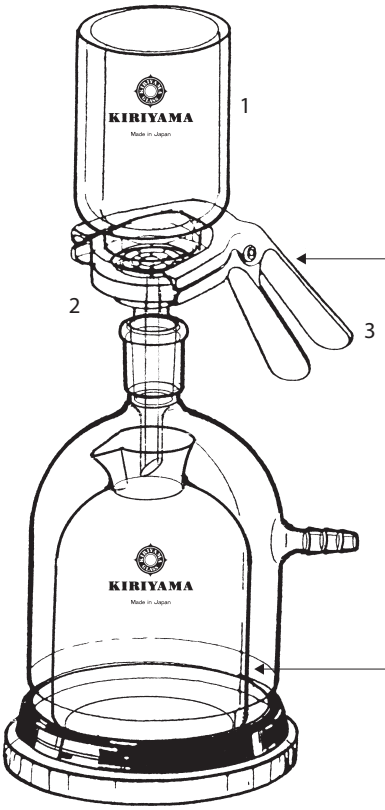
KIRIYAMA ® Rohto



Glass Fiber Filter Paper (GFP) for KIRIYAMA ® Rohto

The birth of KIRIYAMA® Rohto

Initially, we produced a small quantity of funnel with perforated plate.These involved drilling dozens to hundreds of small holes based on the diameter of the glass disc. However, the work efficiency was poor, and as completion approached, the increased number of holes often caused the disc to split in half, making productivity improvements difficult. We noticed rainwater pooling on a manhole cover and observed it flowing into numerous grooves and small holes. We created a prototype resembling this design, initially incorporating multiple holes and grooves. However, We discovered that for suction filtration, a single hole could suffice. This led to the completion of the basic shape of the Kiriyama funnel, which also improved cleanability and productivity.

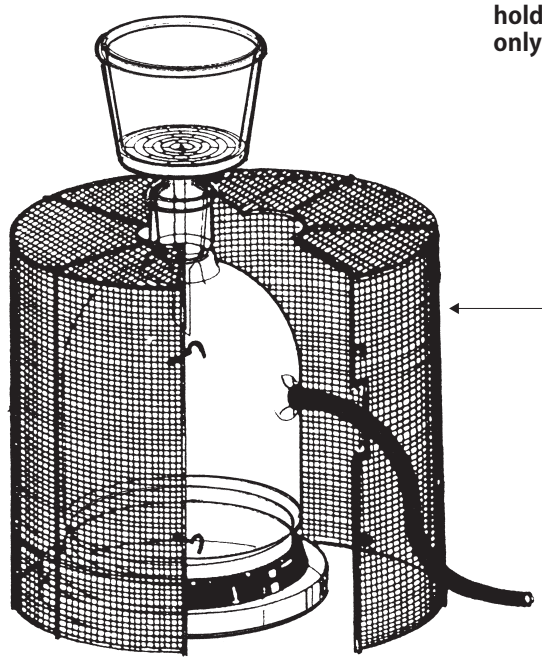


Separohto 55Z

The separable top-and-bottom design allows filter paper to be inserted between the base and cup.
The dedicated filter paper is SS47, but it can be used with diameters ranging from approximately 40mmφ to 60mmφ.Even if not perfectly round, you can cut it to size and use your preferred filter paper.

1.2-liter bottle VK-142

The bottle shown on page 140 is used when a large volume of filtrate is required.It is designed to hold the full contents of the VKU-500 suction bell.
While a triangular flask holds only 500 mL, this bottle can hold up to 1.2 L.Therefore, please note that it is compatible only with the VKU-500 and VKC-500.



Disaster prevention wire mesh for VKC-3000

G-3000

This wire mesh storage unit can hold the VKC-3000. Please use in combination with this product in case of accidental damage during use.

※We also manufacture Vacuum bell jars for other applications

List of Physical Properties for Various Filter Papers and Glass Fiber Filters

Types of filter paper	NO.3	NO.4 hard filter paper	NO.5A	NO.5B	NO.5C	NO.6	NO.7	GFP (GA-200)	SS-47 LS-100
Suspended particles (μ)	5	1	7	4	1	3	4	0.8	0.5
Filtration rate	Somewhat fast	Particularly slow	Fast	Somewhat fast	Slow	Somewhat slow	Somewhat fast	Fast	Particularly slow
Herzberg velocity measurement value	120	1200	55	195	570	300	200	0.60	0.24
Thickness (mm)	0.23	0.17	0.22	0.22	0.21	0.19	0.19		
Ash content (g) (5.5 cm diameter)	0.0001	0.00006	0.00004	0.00004	0.00004	0.00002	0.000007		
Primary uses	Soil testing, Cement testing, Fertilizer testing, Mineral testing, etc. Quantitative analysis	Suitable for strong acid and strong alkali solutions	Suitable for filtering coarse sediment	Ordinary sedimentation	For filtering fine precipitates	Ordinary sedimentation	Ordinary sedimentation	Items requiring chemical stability	For measuring suspended solids
Characteristics	Thick paper Fast filtration speed	Resilient	Fast filtration rate	Good retention	possesses an extremely minute degree of retention	Slightly slow but has good retention	Thin paper stock Uniform paper layers Low ash content	Retention of large amounts of precipitate	Possesses excellent collection efficiency (contains a small amount of organic binder)

*Time (sec) required for 100 ml of distilled water at 20°C to filter through a 10 cm^2 filter paper surface using a Herzberg filter speed tester under a pressure equivalent to a 10 cm water column.

Filter Paper for KIRIYAMA® Rohto The types of filter paper that are suitable are as shown in the table below.

Filter Paper: Diameter / Series (mm)	8φ	21φ	25φ	40φ	55φ	60φ	95φ	150φ	185φ	240φ
Compatible KIRIYAMA® Rohto	V-8 VB-8	S-21 SB-21	Separohto 25Z	S-40 SB-40 SU-40	S-55 SB-55 SU-55	S-60 SB-60 SU-60 55-Z	S-95 SU-95	S-150 SC-150	S-185 SC-185	PS-240 PSC-240
Types of filter paper compatible with KIRIYAMA® Rohto	NO.3 ×8 NO.4 ×8 NO.5A ×8 NO.5B ×8 NO.5C ×8 NO.6 ×8 NO.7 ×8	NO.3 ×21 NO.4 ×21 NO.5A ×21 NO.5B ×21 NO.5C ×21 NO.6 ×21 NO.7 ×21	NO.3 ×25 NO.4 ×25 NO.5A ×25 NO.5B ×25 NO.5C ×25 NO.6 ×25 NO.7 ×25	NO.3 ×40 NO.4 ×40 NO.5A ×40 NO.5B ×40 NO.5C ×40 NO.6 ×40 NO.7 ×40	Commercial 55mm φfilter paper	NO.3 ×60 NO.4 ×60 NO.5A ×60 NO.5B ×60 NO.5C ×60 NO.6 ×60 NO.7 ×60	NO.3 ×95 NO.4 ×95 NO.5A ×95 NO.5B ×95 NO.5C ×95 NO.6 ×95 NO.7 ×95	NO.3 ×150 NO.4 ×150 NO.5A ×150 NO.5B ×150 NO.5C ×150 NO.6 ×150 NO.7 ×150	NO.3 ×185 NO.4 ×185 NO.5A ×185 NO.5B ×185 NO.5C ×185 NO.6 ×185 NO.7 ×185	NO.3 ×240 NO.4 ×240 NO.5A ×240 NO.5B ×240 NO.5C ×240 NO.6 ×240
Packaging (1 box)	50 sheets	50 sheets	50 sheets	50 sheets		50 sheets	50 sheets	50 sheets	50 sheets	10 sheets
Price (1box)										

※Various Kiriyama Rohtos with constant-temperature jackets are also compatible with the above filter papers.

Glass Fiber Filter Paper (GFP) for KIRIYAMA ® Rohto

Using KIRIYAMA® Rohto together with GFP provides enhanced chemical stability and enables proper filtration.

The types of filter paper(GFP) that are suitable are as shown in the table below.

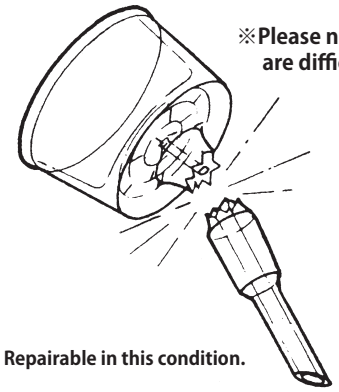
Filter Paper: Diameter / Series (mm)	8φ	21φ	25φ	40φ	47φ	55φ	60φ	95φ	150φ	185φ	240φ
Compatible KIRIYAMA Rohto	V-8 VB-8	S-21 SB-21	Separohto 25Z	S-40 SB-40 SU-40	Separohto 55-Z Series	S-55 SB-55 SU-55	S-60 SB-60 SU-60 55-Z	S-95 SU-95	S-150 SC-150	S-185 SC-185	
Types of filter paper compatible with KIRIYAMA Rohto	GFP-8	GFP-21	GFP-25	GFP-40	SS-47 Suitable for 55-Z Series	Commercially available 55mmφ glass microfiber filter papers	GFP-60	GFP-95	GFP-150	GFP-185	
Packaging (1 box)	10 sheets	10 sheets	10 sheets	10 sheets	100 sheets	10 sheets	10 sheets	10 sheets	10 sheets	10 sheets	
Price (1box)											

※Various KIRIYAMA® Rohtos with constant-temperature jackets are also compatible with the above glass filter papers.

Notice Regarding Repair of Kiriyama Rohto®

Damage to the foot tube section of the Kiriyama Rohto can be repaired. Please contact the retailer where you purchased it or our company.

※Please note that chips or cracks in the main cup section are difficult to repair and cannot be fixed.



Repairable in this condition.



※Repairs cannot be made in this condition.

KIRIYAMA Vacuum Bell Jar Dimension Chart

Size / Catalogue No.	ID φ mm	IH mm (1)	IH mm (2)	⋕ Joint
VKB-50	65	85	110	⋕ 15/25
VKB-100	77	100	140	⋕ 15/25
VKU-100	〃	〃	〃	⋕ 19/28
VKB-200	90	120	160	⋕ 15/25
VKU-200	〃	〃	〃	⋕ 19/28
VKU-500	130	150	205	⋕ 19/28
VKC-500	〃	〃	〃	⋕ 29/42
VKU-1000	165	185	250	⋕ 19/28
VKC-1000	〃	〃	〃	⋕ 29/42
VKC-3000	205	260	360	⋕ 29/42

The above dimensions may vary slightly depending on the material thickness.

KIRIYAMA

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