

HEPA Filter / ULPA Filter Units / HEPA Filters with Air Volume Adjustment

HEPA Filter / ULPA Filter Units

HEPA ULPA

No.	Air Volume m ³ /min		External Dimensions		Cover Height		Upper Cover Mounting Pitch				Bottom Blower Outlet Size		Bottom Side Mounting Pitch						
	HEPA	ULPA	A	B	H	G	Cover Mounting	J	K ₁	K ₂	K ₃	W	V	No. of Tapped Holes	P	Q	S	Y	
(1)	1	—	250	250	160	50	4	233	45	160	—	210	220	4	233	45	160	—	
	3	2.5	400	400	165	50		383	80	240	—	360	370		383	80	240	—	—
(2)	5	4	500	500	—	—	6	483	75	350	—	460	470	6	483	75	350	—	
	10	7	610	610	185	—		593	80	225	—	570	580		593	80	—	450	—
(3)	15	13	610	1220	200	65	8	593	80	380	300	570	1190	8	593	80	380	300	—
	25	20			215														

Type	Part Number	Single-Phase Power Supply (V)	Air Volume m ³ /min
HEPA	S100 / S200*	—	1 3 5 10 15 25
ULPA	S100 / S200*	—	2.5 4 7 13 20

*200V type is not available for HEPA filter air volume 1, 3, and ULPA filter air volume 2.5.

HEPA Filters with Air Volume Adjustment

HEPAFS100-5-1
(included with HEPAS100-5)

HEPAFS100-10-1
(included with HEPAS100-10)

HEPAD
(Air Volume Adjustment Controller)

Part Number	Single-phase Power Supply (V)	Air Volume Range	Included HEPA Filter Unit	Air Volume m ³ /min (Controller Volume) Refer to the figure below.													
				(10)	(9)	(8)	(7)	(6)	(5)	(4)	(3)	(2)	(1)				
HEPAF	S100	5-1	HEPAS100-5	5	4.2	3.9	3.3	2.9	1.6	1.0	0.5	0.5 or Less	—	—	—	—	—
		10-1	HEPAS100-10	10	9.3	7.7	6.1	3.9	2.3	1.1	—	—	1 or Less	—	—	—	—

The air volume shown are the average. Adjust according to the environment.

Part Number	HEPAS100-1	HEPAS100-3	ULPAS100-2.5	HEPAS100-5	ULPAS100-4	HEPAS100-10	ULPAS100-7	HEPAS100-15	ULPAS100-13	HEPAS100-25	ULPAS100-20
	Particle Collection Efficiency	HEPAS: 99.99% or more at 0.3 μm particles ULPAS: 99.999% or more at 0.1-0.2 μm particles									
Main Filter	HEPACF-1	HEPACF-3	ULPACF-2.5	HEPACF-5	ULPACF-4	HEPACF-10	ULPACF-7	HEPACF-15	ULPACF-13	HEPACF-25	ULPACF-20
Air Volume (m ³ /min)	1 (0.8)	3 (3.5)	2.5 (3.0)	5 (5.0)	4 (4.0)	10 (10)	7 (7)	15 (15)	13 (13)	25 (25)	20 (20)
Exhaust Air Velocity (m/s)	0.36 (0.29)	0.38 (0.44)	0.31 (0.38)	0.39 (0.39)	0.31 (0.31)	0.51 (0.51)	0.35 (0.35)	0.37 (0.37)	0.32 (0.32)	0.61 (0.61)	0.49 (0.49)
Mass (kg)	4.0	6.5	6.5	11.5	11.5	14.5	14.5	22.0	22.0	25.0	25.0
Noise (dBA)	56 (56)	53 (56)	54 (53)	55 (56)	53 (56)	56 (57)	56 (57)	56 (57)	56 (57)	59 (59)	59 (59)
Power Supply	AC100V, 10, 50/60 Hz Power Cord with Earthing Plug 5m Included										
Power Consumption (W)	AC200V, 10, 50/60 Hz Terminal Block Connection										
100V Type	—	—	—	—	—	—	—	—	—	—	—
200V Type	35 (40)	28 (36)	27 (36)	43 (46)	43 (46)	98 (114)	98 (113)	141 (157)	141 (158)	190 (230)	190 (230)
Accessories	Pre-filter										
	Gasket for Blow Hole: EPDM Synthetic Rubber Sponge										

() is for 60Hz AC. Noise is measured at the point of 1m from the filter in an anechoic room.

HEPA Filters with Air Volume Adjustment Replacement Filters / Mounting Brackets for Filter Units

Part Number Example

Part Number	Part Number	Air Volume (Air Volume Range)
HEPAS100	—	10
HEPAFS100	—	5-1
HEPAD	—	—

Application Example

Opening Dimensions

EPDM Synthetic Rubber Sponge (Attached)
Place the included EPDM Synthetic Rubber Sponge between the mounting part and the unit.
* Screws of 15 mm length are included. If the thickness of the attaching portion is 10 mm or more, longer screws should be used.

Prepare mounting brackets which have openings as shown on the right for mounting to the Aluminum Extrusions Units.

Replacement Filters

HEPACF

RoHS 10

No.	Air Volume m ³ /min		External Dimensions		Height	Upper Cover Mounting Pitch				Bottom Blower Outlet Size		Bottom Side Mounting Pitch						
	HEPACF	—	A	B		No. of Cover Mounting Screws	J	K ₁	K ₂	K ₃	W	V	Number of Taps	P	Q	S	Y	
(1)	1	—	250	250	50	4	233	45	160	—	210	220	4	233	45	160	—	
	3	2.5	400	400			383	80	240	—	360	370		383	80	240	—	—
	5	4	500	500			483	75	350	—	460	470		483	75	350	—	—
(2)	10	7	610	610	65	6	593	80	225	—	570	580	8	593	80	—	450	
	15	13	610	1220			65	8	593	80	380	300		1190	8	593	80	380
(3)	25	20			—	—							—					

No gasket included. For the mounting pitch on the bottom, refer to the drawing for opening dimensions.

Part Number	Air Volume m ³ /min
HEPACF Replacement Filter for HEPA	1 3 5 10 15 25

Mounting Brackets for Filter Units

RoHS 10

Material: 304 Stainless Steel

Part Number	No.	Extrusion (Series)	Screw / Nut	
			Screw	Nut
HEPABLS	5	HFS5	SCB5-8	HNTTSM5-5
	6	HFS6	SCB5-10	HNTTSM6-5
	8	HFS8	—	—
	8-45	HFS8-45	SCB5-12	HNTTSM8-5

Use the included screws to attach the filter side.

Application Example

Filter Replacement

* (HEPAS100-10, ULPAS100-7, HEPAS200-10 and ULPAS200-7 have 6 Connector Receiving Parts, while HEPAS100-15, ULPAS100-13, HEPAS200-15, ULPAS200-13, HEPAS100-25, ULPAS100-20, HEPAS200-25 and ULPAS100-20 have 8 Connector Receiving Parts.)

- Remove screws (4 locations) with a screwdriver and replace the filter.
- Position the connector for indicator light.

Mounting to the Aluminum Extrusions Units when HEPABLS is in use.

Pre-Assembly Fitting Nut HNTTSM5
Insert it into the slot before assembling the extrusions.