

UltraMICRO[®] HJP Mini pleat HEPA/ULPA filter is designed for use in cleanroom ceiling system and equipment where ultra-high efficiency filtration is required. Available in a wide variety of standard sizes, our Mini pleat provides optimal performance in variable air volume system.

UltraMICRO filters are available in the full range of cell side configurations to fit all types of housings and framing systems:

- Gasket Seal
- Gel Seal
- Reverse Gel Seal
- Disposable Ceiling Modules
- Knife Edge

The filters are made from water resistant, fire retardant, micro fiber glass media. Designed to accommodate higher airflow volume, these filters are used for laminar flow bench, bio safety cabinets, dispensing booths and as terminal filters in cleanroom applications.

The UltraMICRO filters designed to meet the demanding airflow and efficiency requirements of the semiconductor, pharmaceutical, biotech, food processing, and other industries in which airborne contaminants must be carefully controlled.

These mini-pleat filters combine the right features to give you optimum efficiency while keeping operating costs to a minimum.

Advantages:

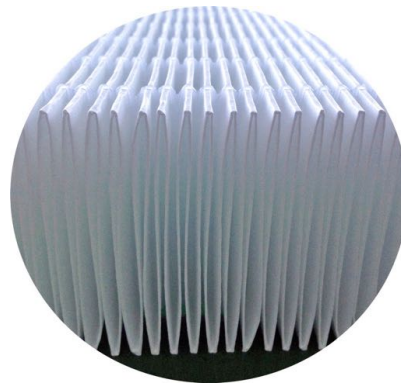
- Mini-pleat design features maximum media cleaning potential
- Tested for leak proof
- Lightweight and compact
- Easy installation
- Lowest possible pressure drop reduces operating costs.
- Each filter includes a label noting tested efficiency, pressure drop, rated airflow;
- A one-piece endless gasket to ensure a leak-free filter-to-holding mechanism seal (optional)
- Available in a range of cleaning efficiencies 95%@DOP, 99.97%@DOP, 99.995%@DOP and 99.9995% on 0.12 microns.

Parameters & Material:

- Frame: Extruded Aluminium / Galvanized Steel / MDF
- Media: Wet laid microfine glass paper
- Separator: Hot-melt beads
- Sealant: Polyurethane
- Gasket: Continuous foamed seal / Neoprene
- Frame Type: Box, Gel Seal, Reverse Gel Seal, Knife edge
- Max. Constant Temperature: 80°C (170°F)
- Recommended Final Resistance: 600Pa (2.4" W.G)
- Flammability: UL Classified
- Relative Humidity: 100%

Testing

Each HEPA filter is tested in accordance with European standard BS EN 1822-1,4&5 (Testing filter elements HEPA and ULPA efficiency and scan method).



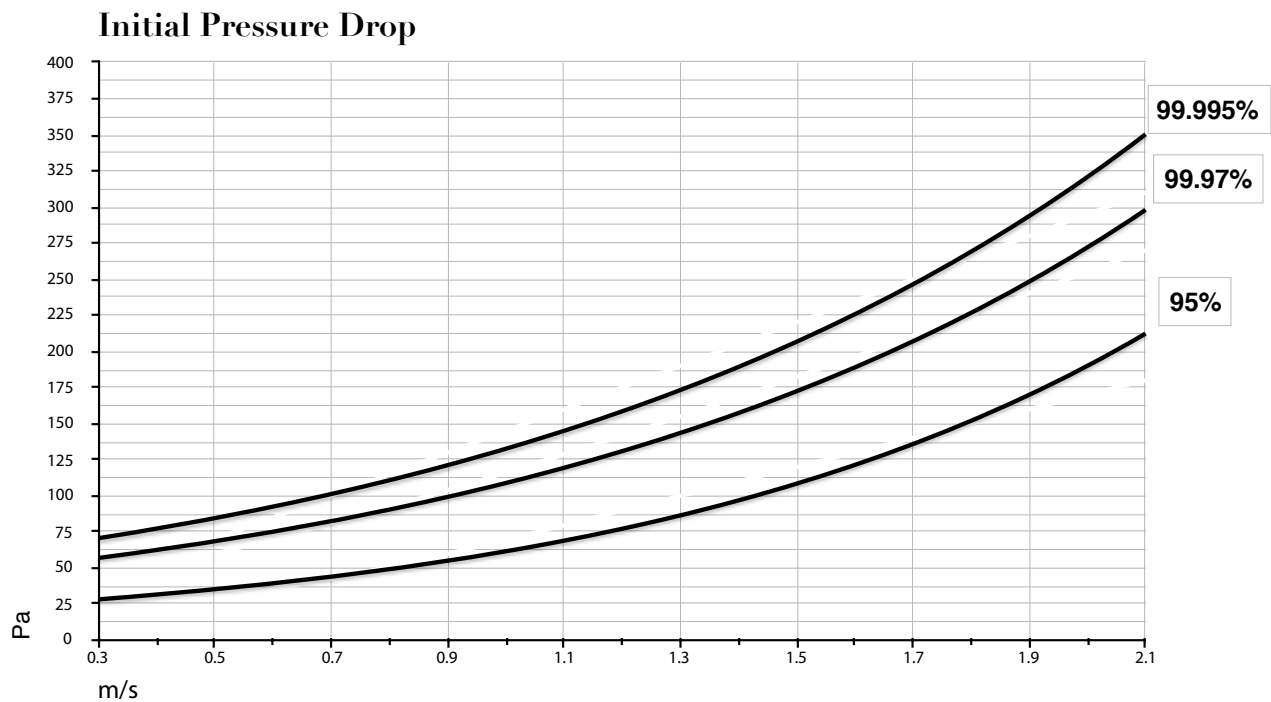
Precision machine pleating provides optimal air flow.

DIMENSION AND PERFORMANCE DATA

PART NUMBER	ACTUAL FILTER DIMENSIONS (H X W X D)		RATED AIR FLOW		PRESSURE DROP (Max.Initial)		WEIGHT EACH	
	(inch)	(mm)	(cfm)	(m3/h)	("w.g)	(pa)	(lbs)	(kgs)
EFFICIENCY 99.97% @ flow 250 FPM / 1.25m/s								
HJP-08191	12 x 12 x 2 3/4	305 x 305 x 69	150	250	0.64	160	3.3	1.5
HJP-08192	24 x 12 x 2 3/4	610 x 305 x 69	300	500	0.64	160	10	4.5
HJP-08193	24 x 24 x 2 3/4	610 x 610 x 69	410	700	0.64	160	11	5
HJP-08194	24 x 30 x 2 3/4	610 x 762 x 69	450	800	0.64	160	14	6.5
HJP-08195	24 x 36 x 2 3/4	610 x 915 x 69	550	950	0.64	160	17.5	8
HJP-08196	24 x 48 x 2 3/4	610 x 1220 x 69	700	1200	0.64	160	22	10
HJP-08197	12 x 12 x 3 1/8	305 x 305 x 80	176	300	0.64	160	4.4	2
HJP-08198	24 x 12 x 3 1/8	610 x 305 x 80	380	650	0.64	160	11	5
HJP-08199	24 x 24 x 3 1/8	610 x 610 x 80	510	880	0.64	160	12	5.5
HJP-08200	24 x 36 x 3 1/8	610 x 915 x 80	600	1050	0.64	160	20	9
HJP-08201	24 x 48 x 3 1/8	610 x 1220 x 80	820	1400	0.64	160	26	12
HJP-08202	12 x 12 x 3 7/8	305 x 305 x 96	235	400	0.64	160	6.6	3
HJP-08203	24 x 12 x 3 7/8	610 x 305 x 96	500	850	0.64	160	13	6
HJP-08204	24 x 24 x 3 7/8	610 x 610 x 96	600	1050	0.64	160	15	7
HJP-08205	24 x 36 x 3 7/8	610 x 915 x 96	700	1200	0.64	160	23	10.5
HJP-08206	24 x 48 x 3 7/8	610 x 1220 x 96	1050	1800	0.64	160	31	14

* Pressure drop : ±15%

PERFORMANCE DIAGRAM



Gel Seal filter constructed with a built-in channel in the filter frame contains a non-flowing, non-hardening urethane gel sealant.

Designed for framing systems and housings equipped with a "knife edge" seal. The knife edge inserts and submerges into the gel seal on the filter to prevent leakage.

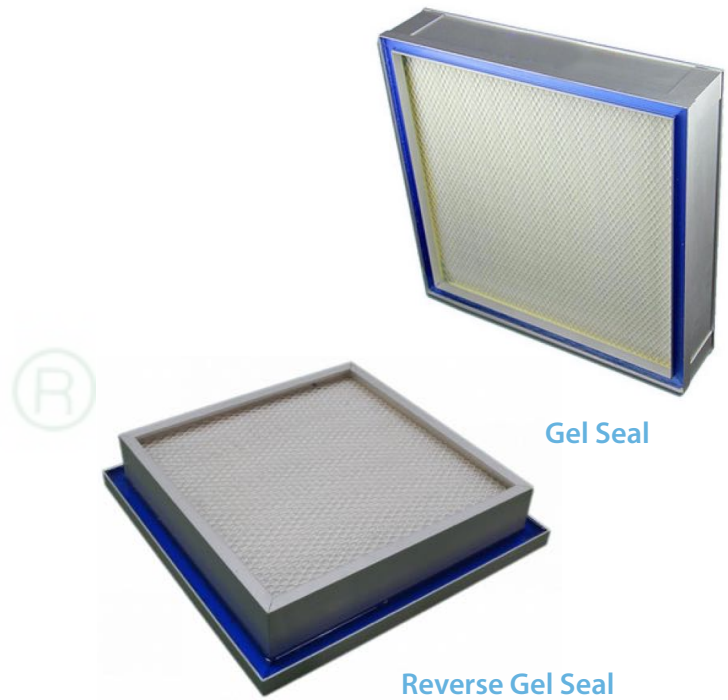
Gel Seal are available in cell side (filter frame) depths of 3 1/8" (80mm).

Reverse Gel Seal filters constructed with the built-in gel channel located at the back of the upstream side of the filter. Placing the channel in this position enables the filter to fit up into the housing to save space. Access to the filter is from the room side of the unit.

Designed for housings and ducted modules equipped with a "knife edge" seal. The knife edge inserts and submerges into the gel seal on the filter to prevent leakage.

Excellent replacement filter for permanently installed ducted ceiling modules.

Reverse Gel Seal are available in cell side (filter frame) depths of 3" (75mm) and 3 7/8" (93mm)



Parameters & Material:

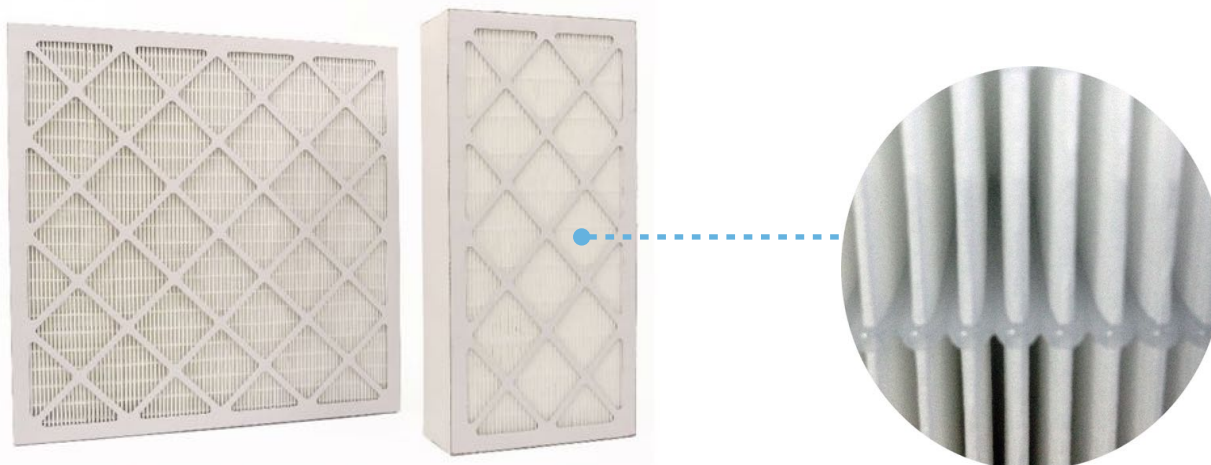
- Frame: Extruded Anodized Aluminum
- Media: Wet laid microfibre glass paper
- Separator: Hot melt
- Sealant: Polyurethane
- Efficiency: 99.99%, 99.995%, 99.9995%
- Frame Type: Gel Seal and Reverse Gel Seal
- Max.Constant Temperature: 80°C (170°F)
- Recommended Final Resistance: 600Pa (2.4"W.G)
- Flammability: UL Classified
- Relative Humidity: 100%

DIMENSION AND PERFORMANCE DATA

PART NUMBER	ACTUAL FILTER DIMENSIONS (H X W X D)		RATED AIR FLOW		PRESSURE DROP (Max. Initial)		WEIGHT EACH	
	(Inch)	(mm)	(cfm)	(m3/h)	("w.g.)	(pa)	(lbs)	(kgs)
Reverse Gel Seal # 99.99% Efficiency								
C10-997121	23 3/8 x 23 3/8 x 3	594 x 594 x 75	588	1000	0.88	220	11	5
C10-997131	23 3/8 x 47 3/8 x 3	594 x 1200 x 75	1176	2000	0.88	220	20	9
C10-997141	23 3/8 x 23 3/8 x 3 7/8	594 x 594 x 93	823	1400	0.88	220	14	6.5
C10-997151	23 3/8 x 47 3/8 x 3 7/8	594 x 1200 x 93	1646	2800	0.88	220	26	12
Gel Seal # 99.99% Efficiency								
C10-998121	23 3/8 x 23 3/8 x 3 1/8	594 x 594 x 80	588	1000	0.8	200	12	5.5
C10-998131	23 3/8 x 47 3/8 x 3 1/8	594 x 1200 x 80	1176	2000	0.8	200	22	10

- Any size in width and height can be customized on request.

- Pressure drop: ±15%.



Parameters & Material

- Frame: Cardboard or metal frame
- Media: Polypropylene fibre
- Separator: Hot melt
- Sealant: Adhesive
- Gasket: None
- Frame Type: SH (metal cell side) , NH
- Max.Constant Temperature: 66°C (150°F)
- Recommended Final Resistance: 325Pa (1.5" W.G)
- Flammability: UL Classified
- Relative Humidity: 80%

Advantages:

- Extended surface mini pleat design
- Low pressure drop
- Light weight construction
- Compact 4" depth
- Moisture resistance cardboard frame
- Three standard efficiency: MERV 11, MERV14, MERV15 as per ASHRAE 52.2:2007
- Easy handling, installation, and removal
- Easy disposal
- Slim line packaging reduces shipping costs and storage space
- Suitable for a broad range of application

Standard Applications

- Industrial Plants
- Hospitals
- Commercial Buildings
- Universities
- Pharmaceutical Facilities
- Sports Arenas

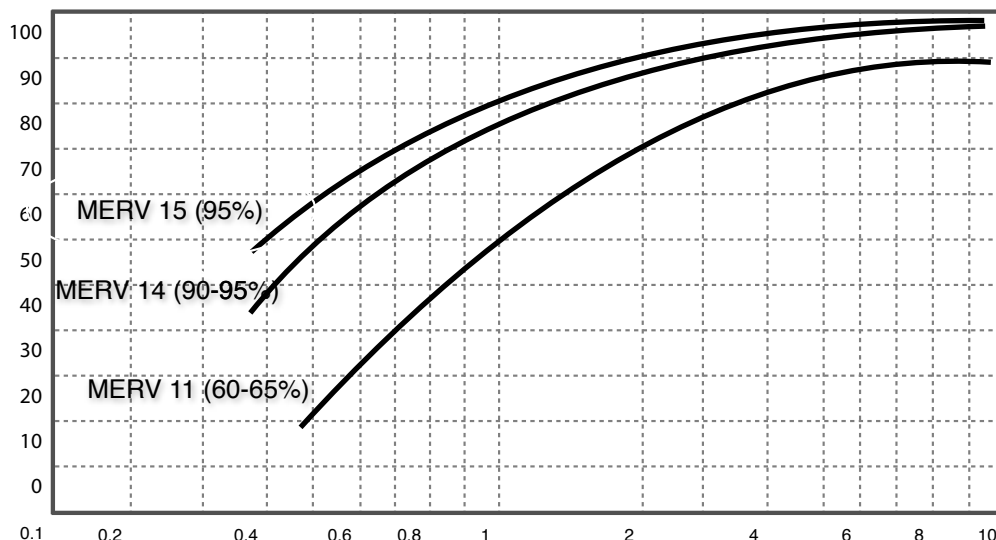
Extreme Applications

- Gas Turbines
- Variable-Air-Volume Systems
- High Humidity/High Moisture Areas

Specialized Application

- Diffusion Filters for Automotive Paint Spray Booths
- Prefilters for HEPA Filter in Clean Rooms and other critical areas

EFFICIENCY BY PARTICLE SIZE



DIMENSIONS AND PERFORMANCE DATA

PART NUMBER	ACTUAL FILTER DIMENSION (W X H X D)		RATED AIR FLOW		PRESSURE DROP (Max.Initial)		WEIGHT EACH	
	(inch)	(mm)	(cfm)	(m3/hr)	(".w.g.)	(pa)	(lbs)	(kgs)
90-95% (MERV 14)								
CTS-424244	23 3/8 x 23 3/8 x 3 3/4	595 x 595 x 95	2000	3400	0.75	190	7	3
CTS-424204	23 3/8 x 19 3/8 x 3 3/4	595 x 495 x 95	1650	2800	0.75	190	5.5	2.5
CTS-424124	23 3/8 x 11 3/8 x 3 3/4	595 x 295 x 95	1000	1700	0.75	190	4	1.8
CTS-420254	19 3/8 x 24 1/2 x 3 3/4	495 x 620 x 95	1750	3000	0.75	190	7	3
CTS-420204	19 3/8 x 19 3/8 x 3 3/4	495 x 495 x 95	1400	2400	0.75	190	5.5	2.5
CTS-416204	15 1/2 x 19 3/8 x 3 3/4	395 x 495 x 95	1100	1800	0.75	190	4.5	2
60-65% (MERV 11)								
CTS-124244	23 3/8 x 23 3/8 x 3 3/4	595 x 595 x 95	2000	3400	0.55	135	7	3
CTS-124204	23 3/8 x 19 3/8 x 3 3/4	595 x 495 x 95	1650	2800	0.55	190	5.5	2.5
CTS-124124	23 3/8 x 11 3/8 x 3 3/4	595 x 295 x 95	1000	1700	0.55	190	4	1.8
CTS-120254	19 3/8 x 24 1/2 x 3 3/4	495 x 620 x 95	1750	3000	0.55	190	7	3
CTS-120204	19 3/8 x 19 3/8 x 3 3/4	495 x 495 x 95	1400	2400	0.55	190	5.5	2.5
CTS-116204	15 1/2 x 19 3/8 x 3 3/4	395 x 495 x 95	1100	1800	0.55	190	4.5	2

- Pressure drop: $\pm 15\%$.
- Filters may be operated at up to 125% of rated face velocity.
- Width and height dimensions are interchangeable. Filters may be installed with pleats in either direction.
- Filters should be used with a prefilter for maximum performance.

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