



# Parker MICROGUARD<sup>®</sup> and MICROPLEAT<sup>™</sup> High-Efficiency Sub-HEPA, HEPA, and ULPA Filters

Advanced premium filtration products for today's clean manufacturing facilities



ENGINEERING YOUR SUCCESS.

# Why Parker HVAC Filtration?

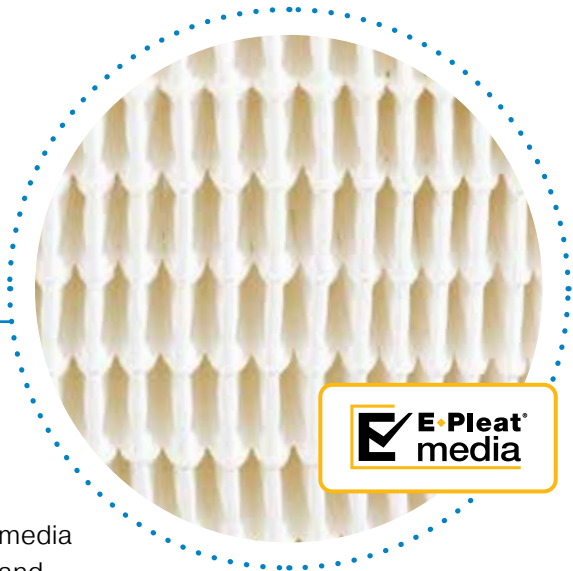
For over 50 years, Parker has been improving the quality of air all around the world with products that define excellence. Parker's HVAC Filtration Division employs the latest innovative and patented technologies, proprietary materials, and testing methods to engineer and manufacture filters that outperform and outlast similar products on the market. For commercial, industrial, and institutional customers, Parker offers a complete line of clean room, HEPA and ULPA standalone and pre-filters that remove microscopic particles and contaminants with efficiencies up to 99.9995%.

In addition to helping our customers maintain a better environment for their employees, manufacturing processes, and equipment, Parker filters are designed to reduce energy consumption and operating costs.

Many of our filter products are incinerable and made with recycled materials to assist with disposal compliance. All are backed by a global network of availability and support – and of course – Parker's reputation for over-delivering on quality, reliability, and value.



# Proprietary E-Pleat<sup>®</sup> technology: An exclusive Parker advantage

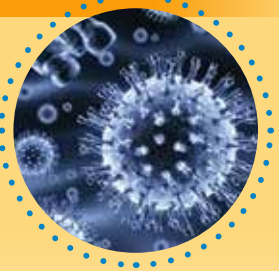


Our premium MICROGUARD<sup>®</sup> LR filters utilize our patented E-pleat technology, making them superior by design. Parker's patented media is manufactured using proprietary pleating technologies to deliver optimum filtration performance and long service life. Multiple layers of hybrid-synthetic, gradient-density media are packed using our E-Pleat<sup>®</sup> equipment to maintain geometry and spacing. Using non-metal adhesive separators, the process maximizes the available media for high purity filtration and high airflow capacity.

The result is an industry-leading solution for typical air handler units (AHUs), making our high-efficiency filters ideal for a wide range of HVAC system applications. And unlike traditional "separator style" box filters, Parker E-Pleat manufactured filters require no significant capital expenditures to upgrade existing mechanical systems.

## INNOVATION IN ACTION! N-Fuse Technology

Parker's next-generation MICROGUARD LR filter uses our proprietary N-Fuse™



Technology that provides Sub-HEPA filtration performance. The filter incorporates unique gradient-density layers of Fluoro-Plasma treated media, combined with our embossed E-Pleat technology to maintain filter geometry and spacing.

### OUR HISTORY IN FILTRATION:

#### An impressive pedigree of the finest air filter brands

How did Parker HVAC Filtration get its start? Our expertise can be traced back to 1964 when Airguard<sup>®</sup> pioneered air filtration solutions including DP and Venti-Pak.

Thousands of companies now rely on Parker HVAC Filtration as their single-source for filtration products knowing they will achieve higher efficiencies – and higher returns on investment.

**Look to Parker for all your filtration needs. Visit [www.parker.com/HVAC](http://www.parker.com/HVAC).**

1964.....1998.....1999.....2004.....



Airguard Industries founded, originally producing HVAC filtration products.



CLARCOR acquires Air Technologies, Inc. and combines with Airguard.



CLARCOR acquires Purolator Air Filtration Company.



CLARCOR Air Filtration Products is formed combining Airguard, ATI and Purolator.



Parker Hannifin acquires CLARCOR, solidifying its position as a global filtration leader.

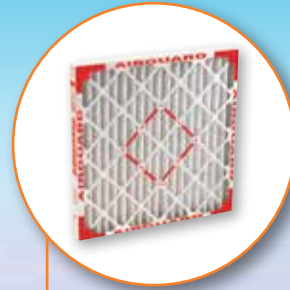


# High efficiency filters for every application

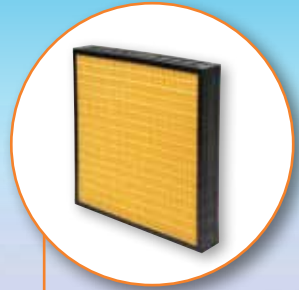
High Efficiency Particulate Air (HEPA) and Ultra-Low Particulate Air (ULPA) filters are designed to trap microscopic airborne particles and contaminants from an air stream to produce a safe environment and prevent cross-contamination of manufacturing processes. They are used in a variety of HVAC applications when having clean air is critical. While they serve the same function, Sub-HEPA, HEPA and ULPA filters vary by efficiency and performance.

## Typical markets with HVAC supply and exhaust applications that benefit from MICROGUARD® and MICROPLEAT™ filters

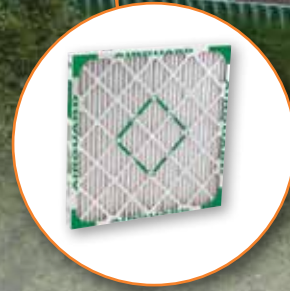
- Hotels and entertainment complexes
- Food processing
- Microelectronics manufacturing
- Data centers
- Commercial office buildings
- Schools and universities
- Hospitals and healthcare facilities
- Research labs
- Clean industrial manufacturing
- Government institutions
- Laboratories
- Industrial manufacturing



**Airguard  
Powerguard™  
MERV 11**



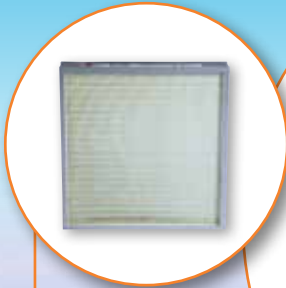
**4" LoadTECH®  
MERV 14**



**Air Return  
Filter DP® MAX  
MERV 8**



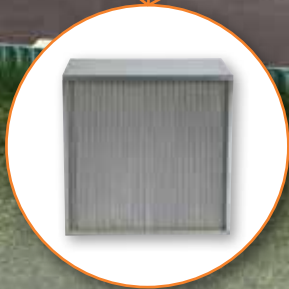
**MICROGUARD® LR  
Sub-HEPA**



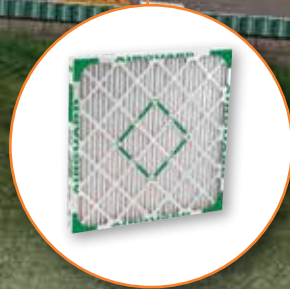
**MICROPLEAT™  
ULPA**



**Laminar Air Flow**  
Our MICROPLEAT filters are designed for laminar air flow applications. Laminar air flow can be described as uniform, non-turbulent airflow moving from ceiling to floor or side to side in a clean room, isolation room or in a coating operation.



**HEPA Filter  
MICROGUARD®**



**Air Return  
Filter DP® MAX  
MERV 8**

# Parker MICROGUARD® LR, MICROGUARD® and MICROPLEAT™

## THE FIRST CHOICE WHEN HIGH-PURITY AIR AND ENERGY SAVINGS ARE CRITICAL TO YOUR SYSTEMS AND APPLICATIONS

### Parker MICROGUARD® LR Sub-HEPA Filters

Sub-HEPA with E-Pleat embossed pleat technology. For applications needing higher efficiency than ASHRAE products that can easily retrofit into HVAC systems.



### Parker MICROGUARD® Sub-HEPA, HEPA and ULPA Filters

Sub-HEPA, HEPA and ULPA filters with aluminum separators. For higher air flow volume applications.



### Parker MICROPLEAT™ HEPA and ULPA Filters

Mini-pleat HEPA and ULPA filters with glue bead separators. For use in ceiling mount systems or areas where space is limited. Designed for lower air flow applications where laminar air flow is needed.



	MICROGUARD LR	MICROGUARD	MICROPLEAT
<b>Minimum Efficiencies</b>	98.5% on 0.3 micron	95% on 0.3 micron 99.97% on 0.3 micron 99.99% on 0.3 micron 99.999% on 0.3 micron 99.999% on 0.12 micron 99.9995% on 0.12 micron	99.97% on 0.3 micron 99.99% on 0.3 micron 99.999% on 0.3 micron 99.999% on 0.12 micron 99.9995% on 0.12 micron
<b>Face Sizes</b>	Four standard sizes	5" x 6" to 36" x 72"	5" x 6" to 24" x 72"
<b>Depth</b>	11-1/2"	5-7/8" and 11-1/2"	2-3/4" to 6"
<b>Media</b>	High efficiency synthetic media	High efficiency micro-fiber glass media	High efficiency micro-fiber glass media
<b>Separator</b>	E-Pleat	Aluminum	Glue bead mini-pleat
<b>Cell Side Materials</b>	HIPS plastic Galvanized steel	Wood Galvanized steel Stainless steel Roll formed aluminum Anodized extruded aluminum	Wood Galvanized steel Stainless steel Roll formed aluminum Anodized extruded aluminum
<b>Cell Side Styles</b>	Box construction Single header	Box construction Double turned flange Headers and flanges	Box construction Reverse gel seal
<b>Gasket Styles</b>	Urethane gasket	Urethane gasket High temperature silicone gasket Urethane gel seal High temperature silicone gel seal	Urethane gasket Urethane gel seal Knife edge skirt
<b>Frame Sealant</b>	Urethane	Urethane High temperature red silicone	Urethane
<b>Factory Options</b>	None	Expanded metal faceguards Extractor clips	Expanded metal faceguards Center posts with test ports
<b>Individual Testing</b>	N/A	99.97% or higher	99.97% or higher



## Check the Parker difference

- ✓ **Longer service life** – Technologically advanced media with multi-layered, dense microfiber structure and precise geometrically formed pleat pack sealed in a durable frame.
- ✓ **Individually tested** – All Parker MICROGUARD and MICROPLEAT filters are individually tested and labeled per IEST recommend Practice (RP) CC-001 to verify they meet the specified efficiency.
- ✓ **Reduced labor costs** – Quick and easy to install. Long service life means fewer changeouts. Gasketing comes pre-installed requiring no assembly or alignment.
- ✓ **Significant energy savings made possible** – Lower pressure drop than standard filters due to highly refined media and E-pleat design.
- ✓ **Meets UL flammability rating standards** – All MICROGUARD and MICROPLEAT filters are UL 900 (U.S.) and UL 900 Class 1 or 2 (Canada) tested and approved.
- ✓ **High filter face velocity** – High capacity pleat configurations allow the filters to be installed in line with other filters in the air handling system without the need for costly transitions.
- ✓ **Water Resistant media** – Non-shocking media withstands harsh environments to reduce water and dust ingress.



# MICROGUARD LR

Low-resistance 12" final stage filter with E-pleat media technology.

Can be used in a wide range of high efficiency air requirements to replace typical MERV 13-16 applications, also in mist collection systems for turning, milling and grinding machinery processes using soluble oil and/or water-based cooling fluids.



**Efficiency:** 98.5% on 0.3 micron

**Frame material:** 24-gauge metal or HIPS plastic frame

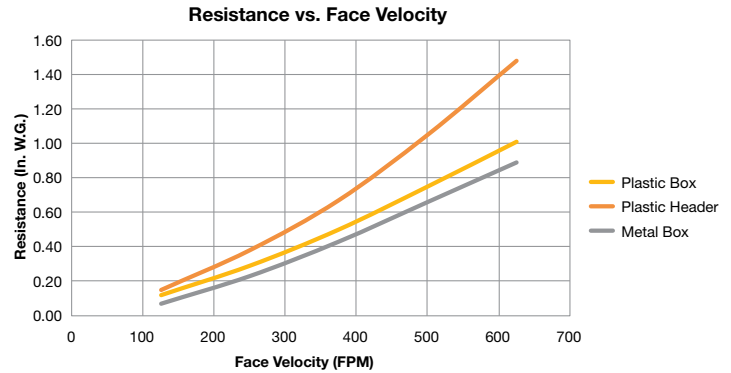
**Frame style:** Box or single header

**Media:** 100% synthetic with embossed pleat

**Gasket:** 1/4 x 3/4 urethane, air leaving or side access

**Sealant:** Urethane

**Separator:** Embossed pleat



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)	Gasket Location
<b>24 Gauge Galvanized Steel Box – HEPA Applications</b>					
K2424B00-0EG00000E	24 x 24 x 11-1/2	2000	0.66"	122	Air Leaving Side
K2323B33-0EG00000E	23-3/8 x 23-3/8 x 11-1/2	2000	0.75"	116	Air Leaving Side
K2412B00-0EG00000E	24 x 12 x 11-1/2	1000	0.66"	61	Air Leaving Side
K2311B33-0EG00000E	23-3/8 x 11-3/8 x 11-1/2	1000	0.75"	56	Air Leaving Side
<b>Plastic Frame (HIPS) Single Header – Side Access HVAC Applications</b>					
K2323B33-0PA14000E	23-3/8 x 23-3/8 x 11-1/2	2000	1.05"	101	Side Access
K2319B33-0PA14000E	23-3/8 x 19-3/8 x 11-1/2	1650	1.05"	83	Side Access
K1919B33-0PA14000E	19-3/8 x 19-3/8 x 11-1/2	1400	1.05"	69	Side Access
K2311B33-0PA14000E	23-3/8 x 11-3/8 x 11-1/2	1000	1.05"	49	Side Access
<b>Plastic Frame (HIPS) Box – Front Load HVAC Applications</b>					
K2323B33-0P000000E	23-3/8 x 23-3/8 x 11-1/2	2000	0.75"	116	Air Leaving Side
K2319B33-0P000000E	23-3/8 x 19-3/8 x 11-1/2	1650	0.75"	95	Air Leaving Side
K1919B33-0P000000E	19-3/8 x 19-3/8 x 11-1/2	1400	0.75"	79	Air Leaving Side
K2311B33-0P000000E	23-3/8 x 11-3/8 x 11-1/2	1000	0.75"	56	Air Leaving Side

**NOTES:**

- 1 Rated face velocity 500 FPM.
2. Recommended final resistance 1.50" W.G. for typical HVAC systems  
Twice initial resistance for HEPA applications
3. Maximum operating temperature, plastic: 170°F (77°C)
4. Maximum operating temperature, metal: 180°F (82°C)
5. Classified per UL 900 for flammability



Patent:  
#9,314,717



# MICROGUARD OM

Our high-efficiency, pleated, fiberglass media aluminum separator filters for mist collection systems for turning, milling and grinding machinery processes using petroleum based cooling fluids.

**Efficiency:** 95% on 0.3 micron

**Frame material:** 16-gauge metal or 0.063 roll formed aluminum

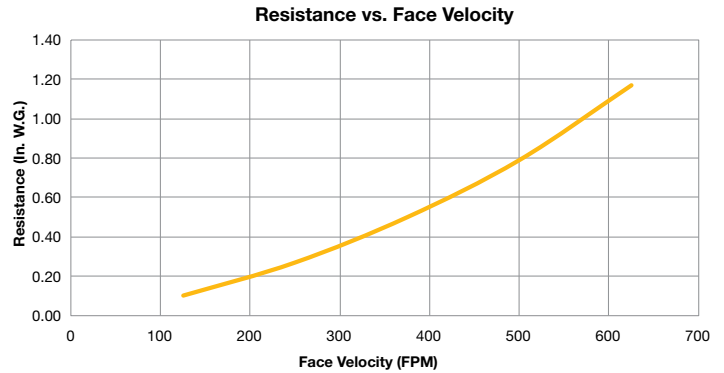
**Frame style:** C-style box

**Media:** Micro-glass fiber, for oil mist applications

**Gasket:** 1/4 x 3/4 urethane, air leaving or side access

**Sealant:** Urethane

**Separator:** Aluminum



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
<b>16 Gauge Galvanized Steel Box - HEPA Applications</b>				
M2424B00-MAG00000M	24 x 24 x 11-1/2	2000	0.79"	288
M2323B33-MAG00000M	23-3/8 x 23-3/8 x 11-1/2	2000	0.85"	281
<b>0.063 Mil-Finish Aluminum</b>				
M2424B00-MFG00000M	24 x 24 x 11-1/2	2000	0.79"	288
M2323B33-MFG00000M	23-3/8 x 23-3/8 x 11-1/2	2000	0.85"	281

**NOTES:**

1. Rated face velocity 500 FPM.
2. Recommended final resistance twice initial resistance
3. Maximum operating temperature, metal: 180°F (82°C)
4. Classified per UL 900 for flammability

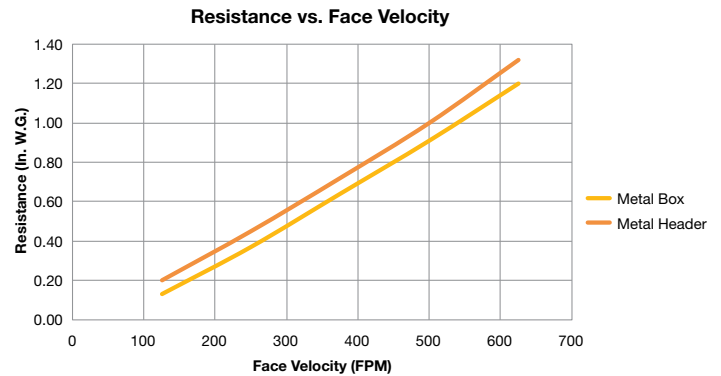


# MICROGUARD 95

High efficiency, fiberglass media aluminum separator. For applications requiring an upgrade from ASHRAE filters without the resistance of true HEPA filters. MICROGUARD 95 can be used in both HEPA and ASHRAE frame and housing systems.



- Efficiency:** 95% on 0.3 micron
- Frame material:** 16-gauge or 24-gauge metal
- Frame style:** C-style box or single header
- Media:** Micro-glass fiber
- Gasket:** 1/4 x 3/4 urethane, air leaving side
- Sealant:** Urethane or fiberglass wrap
- Separator:** Aluminum



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
<b>16 Gauge Galvanized Steel Box</b>				
M2424B00-0AG000000	24 x 24 x 11-1/2	2000	0.91"	202
M2323B33-0AG000000	23-3/8 x 23-3/8 x 11-1/2	2000	1.00"	189
M2412B00-0AG000000	24 x 12 x 11-1/2	1000	0.91"	94
M2311B33-0AG000000	23-3/8 x 11-3/8 x 11-1/2	1000	1.00"	85
M1224B00-0AG000000	12 x 24 x 11-1/2	1000	0.91"	94
M1123B33-0AG000000	11-3/8 x 23-3/8 x 11-1/2	1000	1.00"	85
<b>24 Gauge Single Header</b>				
M2323B33-0EA120300	23-3/8 x 23-3/8 x 11-1/2	2000	1.00"	187
M2311B33-0EA120300	23-3/8 x 11-3/8 x 11-1/2	1000	1.00"	83
M1123B33-0EA120300	11-3/8 x 23-3/8 x 11-1/2	1000	1.00"	83

**NOTES:**

1. Rated face velocity 500 FPM.
2. Recommended final resistance 1.50" W.G. for typical HVAC systems  
Twice initial resistance for HEPA applications
3. Maximum operating temperature, metal: 180°F (82°C)
4. Classified per UL 900 for flammability only.

# MICROGUARD 99

Standard Capacity HEPA Filter, used in a wide range of applications including large HVAC air handlers to smaller process air systems.

**Efficiency:** 99.97% on 0.3 micron

**Frame material:** 16-gauge metal

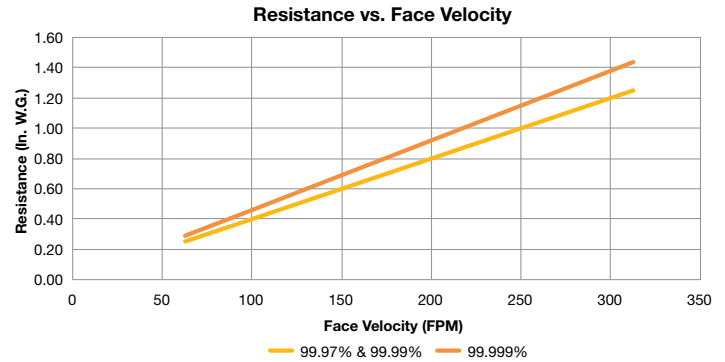
**Frame style:** C-style box

**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 urethane, air leaving side

**Sealant:** Urethane

**Separator:** Aluminum



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
<b>99.97% on 0.3 µm</b>				
H2424B00-0AG000000	24 x 24 x 11-1/2	1000	1.00"	185
H2323B33-0AG000000	23-3/8 x 23-3/8 x 11-1/2	950	1.00"	173
H2412B00-0AG000000	24 x 12 x 11-1/2	500	1.00"	88
H2311B33-0AG000000	23-3/8 x 11-3/8 x 11-1/2	475	1.00"	79
H1224B00-0AG000000	12 x 24 x 11-1/2	500	1.00"	88
H1123B33-0AG000000	11-3/8 x 23-3/8 x 11-1/2	475	1.00"	79
<b>99.99% on 0.3 µm</b>				
H2424B00-0AG000030	24 x 24 x 11-1/2	1000	1.00"	185
H2323B33-0AG000030	23-3/8 x 23-3/8 x 11-1/2	950	1.00"	173
H2412B00-0AG000030	24 x 12 x 11-1/2	500	1.00"	88
H2311B33-0AG000030	23-3/8 x 11-3/8 x 11-1/2	475	1.00"	79
H1224B00-0AG000030	12 x 24 x 11-1/2	500	1.00"	88
H1123B33-0AG000030	11-3/8 x 23-3/8 x 11-1/2	475	1.00"	79
<b>99.999% on 0.3 µm</b>				
H2424B00-0AG000040	24 x 24 x 11-1/2	1000	1.15"	185
H2323B33-0AG000040	23-3/8 x 23-3/8 x 11-1/2	950	1.15"	173
H2412B00-0AG000040	24 x 12 x 11-1/2	500	1.15"	88
H2311B33-0AG000040	23-3/8 x 11-3/8 x 11-1/2	475	1.15"	79
H1224B00-0AG000040	12 x 24 x 11-1/2	500	1.15"	88
H1123B33-0AG000040	11-3/8 x 23-3/8 x 11-1/2	475	1.15"	79

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 11-1/2" depth filter - 250 FPM
3. Recommended final resistance  
Twice initial resistance for HEPA applications
4. Maximum operating temperature, metal: 180°F (82°C)
5. Classified per UL 900 for flammability only.



# MICROGUARD HC

High capacity HEPA Filter, for systems requiring filters for higher airflow applications

**Efficiency:** 99.97% on 0.3 micron

**Frame material:** 16-gauge metal

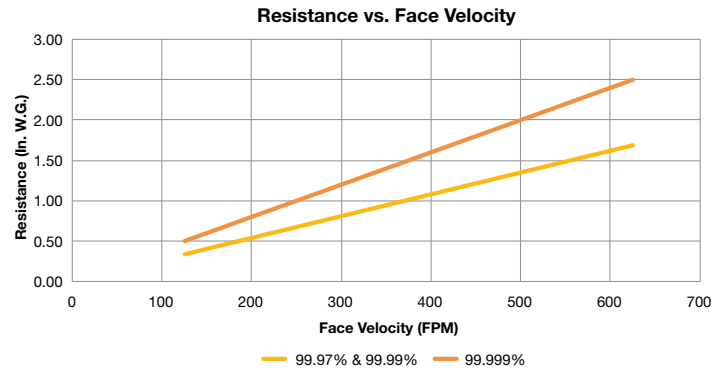
**Frame style:** C-style box

**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 urethane, air leaving side

**Sealant:** Urethane

**Separator:** Aluminum



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
<b>99.97% on 0.3 µm</b>				
H2424B00-0AG00000F	24 x 24 x 11-1/2	2000	1.35"	286
H2323B33-0AG00000F	23-3/8 x 23-3/8 x 11-1/2	2000	1.45"	271
H2412B00-0AG00000F	24 x 12 x 11-1/2	1000	1.35"	133
H2311B33-0AG00000F	23-3/8 x 11-3/8 x 11-1/2	1000	1.45"	122
H1224B00-0AG00000F	12 x 24 x 11-1/2	1000	1.35"	133
H1123B33-0AG00000F	11-3/8 x 23-3/8 x 11-1/2	1000	1.45"	122
<b>99.99% on 0.3 µm</b>				
H2424B00-0AG00003F	24 x 24 x 11-1/2	2000	1.35"	286
H2323B33-0AG00003F	23-3/8 x 23-3/8 x 11-1/2	2000	1.45"	271
H2412B00-0AG00003F	24 x 12 x 11-1/2	1000	1.35"	133
H2311B33-0AG00003F	23-3/8 x 11-3/8 x 11-1/2	1000	1.45"	122
H1224B00-0AG00003F	12 x 24 x 11-1/2	1000	1.35"	133
H1123B33-0AG00003F	11-3/8 x 23-3/8 x 11-1/2	1000	1.45"	122
<b>99.999% on 0.3 µm</b>				
H2424B00-0AG00004F	24 x 24 x 11-1/2	2000	2.00"	286
H2323B33-0AG00004F	23-3/8 x 23-3/8 x 11-1/2	2000	2.00"	271
H2412B00-0AG00004F	24 x 12 x 11-1/2	1000	2.00"	133
H2311B33-0AG00004F	23-3/8 x 11-3/8 x 11-1/2	1000	2.00"	122
H1224B00-0AG00004F	12 x 24 x 11-1/2	1000	2.00"	133
H1123B33-0AG00004F	11-3/8 x 23-3/8 x 11-1/2	1000	2.00"	122

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 500 FPM for 11-1/2" filter depth
3. Recommended final resistance  
Twice initial resistance for HEPA applications
4. Maximum operating temperature, metal: 180°F (82°C)
5. Classified per UL 900 for flammability only.

# MICROGUARD HT

High Temperature HEPA Filter (500°F)

**Efficiency:** 99.97% on 0.3 micron

**Frame material:** Stainless steel

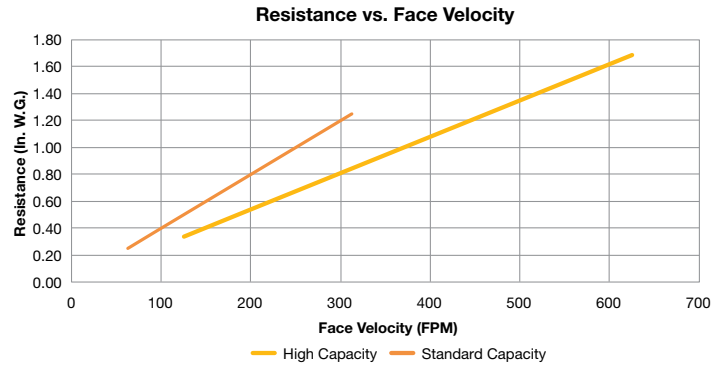
**Frame style:** Double turned flange box

**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 HT silicone, air leaving side

**Sealant:** HT silicone

**Separator:** Aluminum



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
<b>Standard Capacity, 99.97% on 0.3 µm</b>				
H2424B00-0JBB29000	24 x 24 x 11-1/2	1000	1.00"	201
H2323B33-0JBB29000	23-3/8 x 23-3/8 x 11-1/2	1000	1.10"	188
<b>High Capacity, 99.97% on 0.3 µm</b>				
H2424B00-0JBB2900F	24 x 24 x 11-1/2	2000	1.35"	301
H2323B33-0JBB2900F	23-3/8 x 23-3/8 x 11-1/2	2000	1.45"	286

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 500 FPM for 11-1/2" filter depth
3. Twice initial resistance for HEPA applications
4. Maximum operating temperature, metal: 180°F (82°C)
5. Classified per UL 900 for flammability only.



# MICROPLEAT



MICROPLEAT mini-pleat filters are available in a full range of materials and configurations to install in all types of housings and framing systems, from clean room ceiling grids and modules to benches and self-contained equipment.

**Efficiency:** 99.99% on 0.3 micron

**Frame material:** Anodized extruded aluminum

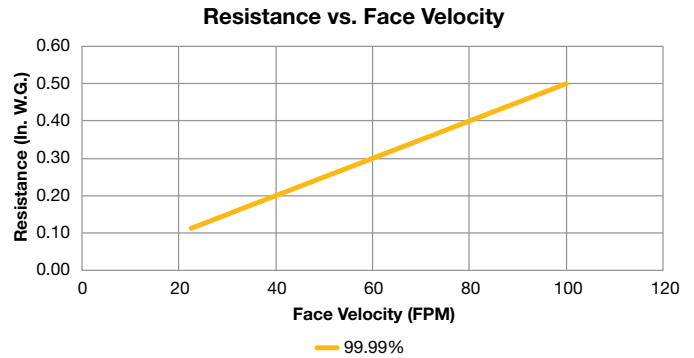
**Frame style:** Box

**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 urethane or gel seal, air leaving side

**Sealant:** Urethane

**Separator:** Mini-pleat



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
H2448R00-0N0000036	24 x 48 x 2-3/4	654	0.45"	223
H2347R55-0N0000036	23-5/8 x 47-5/8 x 2-3/4	638	0.45"	216
H2424R00-0N0000036	24 x 24 x 2-3/4	316	0.45"	110
H2323R55-0N0000036	23-5/8 x 23-5/8 x 2-3/4	306	0.45"	105

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 90 FPM
3. Recommended final resistance twice initial resistance
4. Maximum operating temperature: 160°F (71°C)
5. Classified per UL 900 for flammability only.

# MICROPLEAT V2000



V-bank HEPA 2000 CFM on 24 x 24 x 12.

Designed with a series of mini-pleat bead separator packs to operate at 500 FPM face velocity with a high media area for greater capacity and service life over traditional aluminum separator product.

**Efficiency:** 99.97%, 99.99% and 99.999% on 0.3 micron

**Frame material:** Anodized extruded aluminum

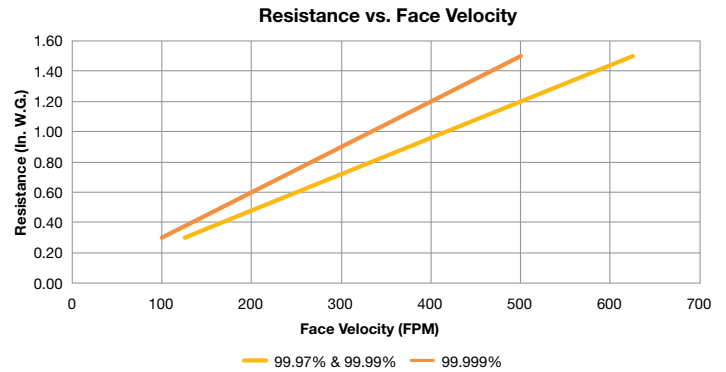
**Frame style:** Box

**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 urethane or gel seal, air leaving side

**Sealant:** Urethane

**Separator:** Mini-pleat



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Media Area (Square Feet)
<b>Gel Seal Filters, 99.97% on 0.3 µm</b>				
H2424B00-0NVF2000B	24 x 24 x 11-1/2	2000	1.20"	300
H2412B00-0NVF2000B	24 x 12 x 11-1/2	1000	1.20"	127
<b>Gel Seal Filters, 99.99% on 0.3 µm</b>				
H2424B00-0NVF2002B	24 x 24 x 11-1/2	2000	1.20"	300
H2412B00-0NVF2002B	24 x 12 x 11-1/2	1000	1.20"	127
<b>Gel Seal Filters, 99.999% on 0.3 µm</b>				
H2424B00-0NVF2004B	24 x 24 x 11-1/2	1600	1.20"	300
H2412B00-0NVF2004B	24 x 12 x 11-1/2	800	1.20"	127
<b>Gasket Seal Filters, 99.97% on 0.3 µm</b>				
H2424B00-0NV00000B	24 x 24 x 11-1/2	2000	1.20"	300
H2412B00-0NV00000B	24 x 12 x 11-1/2	1000	1.20"	127
<b>Gasket Seal Filters, 99.99% on 0.3 µm</b>				
H2424B00-0NV00002B	24 x 24 x 11-1/2	2000	1.20"	300
H2412B00-0NV00002B	24 x 12 x 11-1/2	1000	1.20"	127
<b>Gasket Seal Filters, 99.999% on 0.3 µm</b>				
H2424B00-0NV00004B	24 x 24 x 11-1/2	1600	1.20"	300
H2412B00-0NV00004B	24 x 12 x 11-1/2	800	1.20"	127

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 500 FPM for 11-1/2" filter depth
3. Recommended final resistance twice initial resistance
4. Maximum operating temperature: 160°F (71°C)
5. Classified per UL 900 for flammability only.



# MICROPLEAT V2400

V-bank HEPA 2400 CFM on 24 x 24 x 12.

Designed with a series of mini-pleat bead separator packs to operate at 600 FPM face velocity with a high media area for greater capacity for applications demanding higher air flow rates.

**Efficiency:** 99.97% and 99.99% on 0.3 micron

**Frame material:** Anodized extruded aluminum

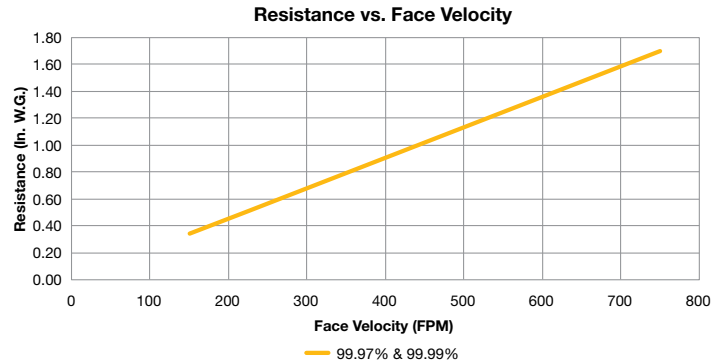
**Frame style:** Box

**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 urethane

**Sealant:** Urethane

**Separator:** Mini-pleat



Construction Code	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Efficiency	Media Area (Square Feet)
<b>Gasket Seal Filters, 99.97% on 0.3 µm</b>					
H2424B00-0NV00000B 2400	24 x 24 x 11-1/2	2400	1.36"	99.97% on 0.3 µm	398
H2412B00-0NV00000B 2400	24 x 12 x 11-1/2	1200	1.36"	99.97% on 0.3 µm	199
H2424B00-0NV00002B 2400	24 x 24 x 11-1/2	2400	1.36"	99.99% on 0.3 µm	398
H2412B00-0NV00002B 2400	24 x 12 x 11-1/2	1200	1.36"	99.99% on 0.3 µm	199

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 600 FPM for 11-1/2" filter depth
3. Recommended final resistance twice initial resistance
4. Maximum operating temperature, metal: 160°F (71°C)
5. Classified per UL 900 for flammability only.



# MICROPLEAT DM

Ducted Disposable Ceiling Modules

MICROPLEAT DM ceiling modules are designed to install in cleanroom ceiling grid or ceiling mounting systems and can be supplied with air individually using 10" or 12" flex duct. When maximum filter resistance is reached, the entire unit is replaced.



**Efficiency:** 99.99% and 99.999% on 0.3 micron and 99.9995% on 0.12 micron

**Frame material:** Anodized extruded aluminum

**Frame style:** Box

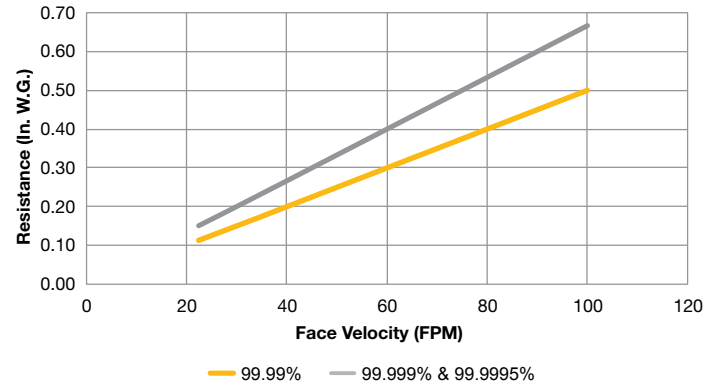
**Media:** Micro-glass fiber

**Gasket:** 1/4 x 3/4 urethane or gel seal, air leaving side

**Sealant:** Urethane

**Separator:** Mini-pleat

Resistance vs. Face Velocity



Construction Code	Nominal Size (H x W x D) Inches	Actual Size (H x W x D) Inches	Rated Air Flow Capacity (CFM)	Initial Resistance (Inches W.G.) @ Rated Air Flow	Inlet Collar Diameter (Inches)	Media Area (Square Feet)
<b>Units for 1.5" T-Bar Ceiling Grid Units, 99.99% on 0.3 µm</b>						
CD24240L-ONP750W36	24 x 24 x 5	23-5/8 x 23-5/8 x 5	290	0.45"	10"	107
CD24480L-ONP750W36	24 x 48 x 5	23-5/8 x 47-5/8 x 5	620	0.45"	10"	215
CD24242L-ONP750W36	24 x 24 x 5	23-5/8 x 23-5/8 x 5	290	0.45"	12"	107
CD24482L-ONP750W36	24 x 48 x 5	23-5/8 x 47-5/8 x 5	620	0.45"	12"	215
<b>Units for 1.5" T-Bar Ceiling Grid Units, 99.999% on 0.3 µm</b>						
CD24240L-ONP750W46	24 x 24 x 5	23-5/8 x 23-5/8 x 5	290	0.60"	10"	107
CD24480L-ONP750W46	24 x 48 x 5	23-5/8 x 47-5/8 x 5	620	0.60"	10"	215
CD24242L-ONP750W46	24 x 24 x 5	23-5/8 x 23-5/8 x 5	290	0.60"	12"	107
CD24482L-ONP750W46	24 x 48 x 5	23-5/8 x 47-5/8 x 5	620	0.60"	12"	215
<b>Units for 1.5" T-Bar Ceiling Grid Units, 99.9995% on 0.12 µm</b>						
CD24240L-ONP750WF6	24 x 24 x 5	23-5/8 x 23-5/8 x 5	290	0.60"	10"	107
CD24480L-ONP750WF6	24 x 48 x 5	23-5/8 x 47-5/8 x 5	620	0.60"	10"	215
CD24242L-ONP750WF6	24 x 24 x 5	23-5/8 x 23-5/8 x 5	290	0.60"	12"	107
CD24482L-ONP750WF6	24 x 48 x 5	23-5/8 x 47-5/8 x 5	620	0.60"	12"	215

**NOTES:**

1. Filters individually tested per IEST-RP-CC001
2. Rated face velocity 90 FPM
3. Recommended final resistance twice initial resistance
4. Maximum operating temperature, metal: 160°F (71°C)
5. Classified per UL 900 for flammability only.



# Making the right filter choice: **Sub-HEPA, HEPA or ULPA**


The distinction between the filter types can be unclear given the range of testing methods. HEPA filters have a minimum efficiency of 99.97% at 0.3 microns, whereas ULPA filters have an efficiency rating of 99.999% at 0.12 microns or higher. This does not mean that ULPA filters are better than HEPA filters when taking air flow and other variables into account. In fact, HEPA filters cost less and have a lower resistance to air flow and have a longer service life than ULPA filters. Efficiency selection will be to meet the needs of the user and application, as specific conditions and operation may demand either HEPA or ULPA.

When selecting a filter, it's important to choose the one that meets your appropriate defined standard, level of filtration, and system configuration. For assistance, contact your Parker HVAC representative for assistance in selecting the proper product configuration to meet your requirements.



# Contact Parker for more information and specifications on our products:

## High-Efficiency



**Parker ADVANTAGE® High-Efficiency 2" Mini-Pleat Filters**  
Improved air quality for your facility

**Parker** ENGINEERING YOUR SUCCESS.

### LoadTECH® Filters MERV 14

High-Efficiency 4-inch Extended Rigid Cell Filters with E-Pleat® Media Technology

**Compact, Long-Life, Energy-Saving Filters for Commercial Applications**

Parker LoadTECH high-efficiency pleated HEPA/ULPA filters feature E-Pleat® media technology to meet the demand for an exceptional pleated air filter. The E-Pleat design offers the same filtration performance as a 12-inch pleated filter, but with a much smaller footprint, resulting in simplified handling and reduced storage space requirements and shipping costs. Ideal for variable air volume systems.

**Markets:**

- Health and pharmaceutical complexes
- Food processing
- Microelectronics manufacturing
- Data centers
- Commercial office buildings
- Chemical and petrochemical
- Clean manufacturing facilities
- Hospital and healthcare facilities
- Government institutions
- Industrial manufacturing

**Contact Information:**

Parker Hannifin Corporation  
HVAC Filtration Division  
100 River Ridge Circle  
Jeffersonville, Indiana 47130  
phone 866-247-4827  
www.parker.com/HVAC

**Product Features:**

- Proprietary E-Pleat media technology efficiently directs air flow through the filter
- Exclusive gold synthetic media with reinforced design holds two times more dust
- Media resists tearing, damage, moisture, and microbial growth
- Larger filter fit and lower filter change risk with higher dust holding capacity
- 12-inch filter performance in a compact 4-inch design
- Simplified handling and easy installation, plus reduced storage space requirements and lower shipping costs
- Energy savings - Low pressure drop offers reduced energy use
- Completely reinforced with high-strength polypropylene frame
- Lightweight construction
- ISO 9001 to ensure the efficiency requirements for air points toward LEED green building certification

**Parker** ENGINEERING YOUR SUCCESS.

### QuadSEAL® Filters MERV 14

High-Efficiency 4-inch Extended Surface Box Filters with Foamed Polyurethane Frame, Integral Gasket, and E-Pleat® Media Technology

**Flexible, Impact-Resistant, Long-Life, Energy-Saving Filters for Commercial Applications**

QuadSEAL® MERV 14 box filters combine E-Pleat® media technology with a foamed polyurethane frame, integral gasket and can be used without a gasket.

The construction is very robust, with QuadSEAL's integral gasket on all four sides. Gaskets on the top, bottom and perimeter of the frame and provide the fit to the duct system and to prevent bypass. The integral gasket provides the added protection. The media packs in 100 percent bonded into the frame's compartments, ensuring proper fit and easy to dislodge media or adhesive.

**Markets:**

- Health and pharmaceutical complexes
- Food processing
- Microelectronics manufacturing
- Data centers
- Commercial office buildings
- Chemical and petrochemical
- Clean manufacturing facilities
- Hospital and healthcare facilities
- Government institutions
- Industrial manufacturing

**Contact Information:**

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www.parker.com/HVAC

**Product Features:**

- Moisture resistant polyurethane frame with dust-wicking integral gasket in most applications, and corrosion resistant and can be used without a gasket
- Energy Savings - Low pressure drop offers reduced energy use
- Complete, reinforced - no metal parts
- Lightweight construction
- Quadruple pleat (UL Standard 900 for HEPA/ULPA)
- E-Pleat® media the industry requirement to meet points toward LEED green building certification
- Stainless steel design for sterile process used in manufacturing process
- Simplified handling and easy installation, plus reduced storage space requirements and lower shipping costs
- Energy Savings - Low pressure drop offers reduced energy use
- Complete, reinforced - no metal parts
- Lightweight construction
- Quadruple pleat (UL Standard 900 for HEPA/ULPA)
- E-Pleat® media the industry requirement to meet points toward LEED green building certification
- Stainless steel design for sterile process used in manufacturing process

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## Sub-HEPA

### Parker MICROGUARD® LR Sub-HEPA

Low-Resistance 12" Final Stage Filter with E-Pleat Media Technology

**98.5% efficiency on 0.3 Micron Particulate, providing Sub-HEPA Filtration in ASHRAE and HEPA Frame Systems**

Parker LR MicroGUARD LR Sub-HEPA filter uses our proprietary E-Pleat® Technology for superior filtration performance. The filter incorporates three layers of gold synthetic media and reinforced design to meet the demand for high efficiency and low resistance.

Parker MICROGUARD LR filter is used for air handling unit (AHU) applications. And, other facilities' standard HEPA box filters. MICROGUARD LR filter meets the required efficiency requirements for ASHRAE and HEPA frame systems equipped to achieve high levels of indoor air quality.

**Product Features and Benefits:**

- Standard 14" x 24" size for maximizing space utilization and simplifying installation and operation
- Adaptive, high-strength media reduces pleating costs
- Available in 2" gage metal box construction for traditional HEPA, HEPA and ultra-clean systems
- High impact polypropylene frame meets disposal requirements
- Large filter fit and lower filter change risk with high dust holding capacity
- Thick, hybrid synthetic media offers high efficiency filtration with low pressure drop
- Adaptive, high-strength media reduces pleating costs
- Media packs in fully sealed around the perimeter into the frame, preventing leakage and air bypass
- Fully reinforced media pack reduces disposal requirements
- Large filter fit and lower filter change risk with high dust holding capacity

**Contact Information:**

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## HEPA / ULPA

### AIRGUARD® MICROGUARD®

High Capacity HEPA Filters 99.97%, 99.99%, 99.999% on .3 micron particles



**Product Features and Benefits:**

- Every filter individually tested
- Standard capacity and high capacity
- Gasket seal and gasket seal
- High temperature models
- UL 900, 940

**Parker** ENGINEERING YOUR SUCCESS.

### AIRGUARD® MICROPLEAT®

High Capacity ULPA Filters



**Product Features and Benefits:**

- Every filter individually tested
- Standard capacity and high capacity
- Gasket seal and gasket seal
- High temperature models
- UL 900, 940

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Contact Parker for more information  
phone 866-247-4827 • www.parker.com/HVAC



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**Engine Mobile Aftermarket Division**  
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**⚠ WARNING:** This product can expose you to chemicals, including 1,4-dioxane, acetaldehyde, acrylonitrile, antimony oxide, ceramic fibers, chromium, ethylbenzene, formaldehyde, glass wool fibers, nickel, styrene, titanium dioxide, toluene diisocyanate, which are known to the State of California to cause cancer and carbon disulfide, chromium, disodium tetraborate decahydrate, lead, methanol, toluene, which are known to the State of California to cause birth defects and other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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