

MINIMIZE DUST

MAXIMIZE PROTECTION



Three Steps to Selecting a Cab Air Quality Filter for Your Jobsite

1. SELECT HVAC APPLICATION:

FRESH AIR Page 2-3



RECIRCULATED AIR Page 4



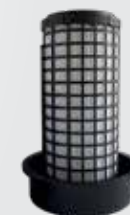
* In addition, High-Efficiency Cab HVAC Panel Filter Kits are available for specific machines

2. SELECT FILTRATION TYPE

- For job sites with heavy dust and debris, a **MERV 16** filter will substantially improve cab air quality.
- For ISO 23875 Cab Air Quality compliance, an **EPA** filter provides near HEPA-level protection with restriction almost as low as a MERV 16 filter.
- For job sites with harmful dust, such as asbestos, coal dust, etc., or where required by regulatory concerns, upgrade to **HEPA** filters.
- Where odor is a concern but toxic gases are not present, use standard-length **Odor+HEPA** filters.
- Where gas is an issue, use extended-length **Gas+HEPA** or **Ammonia+HEPA** filters.

3. SELECT FILTER SIZE

- **Standard:** For use in standard-size Sy-Klone RESPA systems, providing advanced precleaning, pressurization, and filtration in the smallest footprint possible. Odor+HEPA is standard-length only.
- **Extended:** For use in extended RESPA systems, providing increased filter life on jobsites. Gas+HEPA and Ammonia+HEPA are extended-length only.



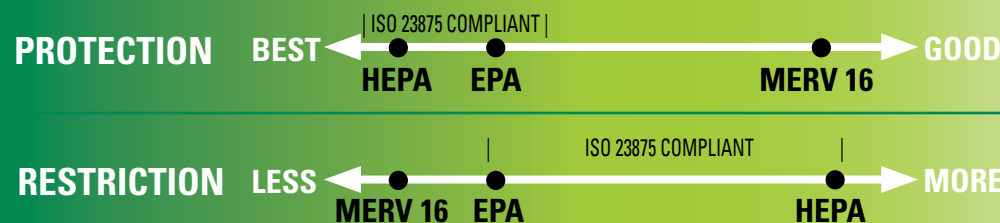
RECIRCULATION FILTRATION ALTERNATIVE:

High-Efficiency Cab HVAC Filter Kits

- Easy to install; no wiring or plumbing required.
- Customized for specific machine models.
- Significantly more protection than factory recirculation filters.









HEPA AND EPA MEET ISO 23875 REQUIREMENTS



FRESH AIR RESPA® RadialSHIELD® PARTICULATE FILTERS



Model	Powered	MERV 16	EPA	HEPA	Odor+HEPA	Gas+HEPA	Ammonia+HEPA
RESPA CF2 Standard	●	●	●	●	●		
RESPA CF2 Extended	●	●	●	●		●	●

For RESPA CF2, CF Type and Length	Sy-Klone Part No.	Filter Test Method, Classification	Minimum Average Efficiency	Nominal Airflow	Effective Against	Applications																	
<p>MERV 16</p>  <p>STANDARD FEFF208</p> <p>EXTENDED FEFF209</p> <p>LOWEST RESTRICTION, GOOD PROTECTION</p>	<p>FEFF208 Ejective filter cap</p>	<p>ASHRAE 52.2, ISO 11155-1 MERV 16</p>	<p>≥95% @ 0.3 µm to 1.0 µm particle size</p>	<p>≤ 150 CFM (255 m³/h)</p>	<p>All 0.3 µm to 1.0 µm particulate, including:</p> <ul style="list-style-type: none"> • Bacteria • Diesel particulate matter (DPM) • Droplet nuclei (sneeze) • Most tobacco smoke • Respirable crystalline silica (RCS) • Other respirable particulate within the size range 	<ul style="list-style-type: none"> • Agricultural, meets EN15695 Category 2 cab filter requirement • Construction • Demolition • Forestry, logging, mulching • Mining • Rail maintenance of way • Waste and indoor recycling • All applications where respirable dust is present 																	
	<p>FEFF209 Ejective filter cap</p>	<p>EN779:2002 F9</p>	<p>≥95% @ 0.4 µm particle size</p>				<p>EPA</p>  <p>STANDARD FEFF240</p> <p>EXTENDED FEFF241</p> <p>LOW RESTRICTION, EXCELLENT PROTECTION</p>	<p>FEFF240 Ejective filter cap</p>	<p>ISO 23875:2021 Amendment 1, ASHRAE 52.0, ISO 11155-1 EPA</p> <p>Meets ISO 23875 Requirements</p>	<p>>99.6% @ 0.16 µm</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.2 kPa</p>	<p>All MERV 16 contaminants, plus:</p> <ul style="list-style-type: none"> • All combustion smoke • Carbon dust • Sea salt dust • Carcinogenic materials • Friable asbestos 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 2 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra-fine aerosols are present 	<p>FEFF241 Ejective filter cap</p>			<p>HEPA</p>  <p>STANDARD FEFF218</p> <p>EXTENDED FEFF219</p> <p>MORE RESTRICTION, BEST PROTECTION</p>	<p>FEFF218 Ejective filter cap</p>	<p>ISO 23875:2021 Amd. 1 EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA</p> <p>Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.4 kPa</p>	<p>All MERV 16 and EPA contaminants, plus all 0.06 µm to 1.0 µm particulate, including:</p> <ul style="list-style-type: none"> • Carcinogenic materials • Sub-100 nanometer particulate, such as: <ul style="list-style-type: none"> • Viruses (COVID-19 is 60nm - 100nm) • Respiratory droplet nuclei • Ultra fine aerosols 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 3 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra fine aerosols are of concern, or required by regulations
<p>EPA</p>  <p>STANDARD FEFF240</p> <p>EXTENDED FEFF241</p> <p>LOW RESTRICTION, EXCELLENT PROTECTION</p>	<p>FEFF240 Ejective filter cap</p>	<p>ISO 23875:2021 Amendment 1, ASHRAE 52.0, ISO 11155-1 EPA</p> <p>Meets ISO 23875 Requirements</p>	<p>>99.6% @ 0.16 µm</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.2 kPa</p>	<p>All MERV 16 contaminants, plus:</p> <ul style="list-style-type: none"> • All combustion smoke • Carbon dust • Sea salt dust • Carcinogenic materials • Friable asbestos 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 2 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra-fine aerosols are present 																	
	<p>FEFF241 Ejective filter cap</p>						<p>HEPA</p>  <p>STANDARD FEFF218</p> <p>EXTENDED FEFF219</p> <p>MORE RESTRICTION, BEST PROTECTION</p>	<p>FEFF218 Ejective filter cap</p>	<p>ISO 23875:2021 Amd. 1 EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA</p> <p>Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.4 kPa</p>	<p>All MERV 16 and EPA contaminants, plus all 0.06 µm to 1.0 µm particulate, including:</p> <ul style="list-style-type: none"> • Carcinogenic materials • Sub-100 nanometer particulate, such as: <ul style="list-style-type: none"> • Viruses (COVID-19 is 60nm - 100nm) • Respiratory droplet nuclei • Ultra fine aerosols 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 3 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra fine aerosols are of concern, or required by regulations 	<p>FEFF219 Ejective filter cap</p>			<p>Initial Efficiency ≥99.95% @ MPPS (0.063 µm)</p>						
<p>HEPA</p>  <p>STANDARD FEFF218</p> <p>EXTENDED FEFF219</p> <p>MORE RESTRICTION, BEST PROTECTION</p>	<p>FEFF218 Ejective filter cap</p>	<p>ISO 23875:2021 Amd. 1 EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA</p> <p>Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.4 kPa</p>	<p>All MERV 16 and EPA contaminants, plus all 0.06 µm to 1.0 µm particulate, including:</p> <ul style="list-style-type: none"> • Carcinogenic materials • Sub-100 nanometer particulate, such as: <ul style="list-style-type: none"> • Viruses (COVID-19 is 60nm - 100nm) • Respiratory droplet nuclei • Ultra fine aerosols 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 3 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra fine aerosols are of concern, or required by regulations 																	
	<p>FEFF219 Ejective filter cap</p>						<p>Initial Efficiency ≥99.95% @ MPPS (0.063 µm)</p>																

NOTES: µm = micrometer. Mishandling can result in loss of efficiency rating. Change filter based on cabin pressure. Hazardous gas or particulate environments require additional monitoring. For latest information, see sy-klone.com

¹MPPS = Most Penetrating Particle Size. Each filter passes breach test at time of manufacture. ²Fits RESPA-CF2; RESPA-CF requires Odor Filter Retrofit Kit. ³Additional steps should be taken to monitor gas exposure. Use appropriate replacement interval.

FRESH AIR RESPA® RadialSHIELD® SPECIALTY FILTERS



**RESPA CF2
STANDARD LENGTH**

- HEPA, EPA, and MERV 16 filters
- Odor filters






**RESPA CF2
EXTENDED LENGTH**

- HEPA, EPA, and MERV 16 filters
- Gas+HEPA filters
- Ammonia+HEPA filters



EJECTIVE FILTER CAP
Designed to eject debris as part of the precleaning process and self-cleaning capability.

For RESPA-CF2, CF Type and Length	Sy-Klone Part No.	Filter Test Method, Classification	Minimum Average Efficiency	Nominal Airflow	Effective Against	Applications
<p>Odor+HEPA</p>  <p>STANDARD OF131</p>	<p>OF131² Ejective filter cap (Replaces FEFF131)</p>	<p>ISO 23875:2021 Amd. 1 EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA and ISO 11155-2 Odor Retention Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm Initial Efficiency ≥99.95% @ MPPS (0.063 µm)</p>	<p>≤ 50 CFM (85 m³/h) Pressure ΔP 0.2 kPa</p>	<ul style="list-style-type: none"> • General odors caused by particulate and non-toxic gas contaminants • Particulate as listed on page 2 for HEPA filters 	<ul style="list-style-type: none"> • Applications that involve non-toxic odors • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 3 cab filter requirement • Farming and agricultural spraying equipment • Waste and indoor recycling • Applications as listed on page 2 for HEPA filters
<p>ABEK Gas+HEPA</p>  <p>EXTENDED GF130</p>	<p>GF130³ <i>RESPA-CF2 only</i> Ejective filter cap (Replaces FEFF130)</p>	<p>ISO 23875:2021 Amd. 1 EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA and EN12941:1998 + A1:2004 + A2:2008 Gas ABEK1 Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm Initial Efficiency ≥99.95% @ MPPS (0.1 µm)</p>	<p>≤ 50 CFM (85 m³/h) Pressure ΔP 0.2 kPa</p>	<ul style="list-style-type: none"> • Ammonia gases • Inorganic gases • Sulfur gases • Volatile organic compounds (VOC) • Particulate as listed on page 2 for HEPA filters 	<ul style="list-style-type: none"> • For use in known toxic gas environments³ • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 4 cab filter requirement • Agricultural spraying equipment • Industrial processing, ore processing • Waste and indoor recycling • Applications as listed on page 2 for HEPA filters
<p>Ammonia+HEPA</p>  <p>EXTENDED GF132</p>	<p>GF132³ <i>RESPA-CF2 only</i> Ejective filter cap</p>	<p>ISO 23875:2021 Amd. 1 EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA and EN12941:1998 + A1:2004 + A2:2008 Gas K2 Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm Initial Efficiency ≥99.95% @ MPPS (0.1 µm)</p>	<p>≤ 50 CFM (85 m³/h) Pressure ΔP 0.2 kPa</p>	<ul style="list-style-type: none"> • Ammonia gases • Particulate as listed on page 2 for HEPA filters 	<ul style="list-style-type: none"> • For use in ammonia gas environments³ • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 4 cab filter requirement • Waste and indoor recycling • Applications as listed on page 2 for HEPA filters

NOTES: µm = micrometer or micron. Mishandling can result in loss of efficiency rating. Change filter based on cabin pressure. Hazardous gas or particulate environments require additional monitoring. For latest information, see sy-klone.com
¹MPPS = Most Penetrating Particle Size. Each filter passes breach test at time of manufacture. ²Fits RESPA-CF2; RESPA-CF requires Odor Filter Retrofit Kit. ³Additional steps should be taken to monitor gas exposure. Use appropriate replacement interval.

RECIRCULATED AIR RESPA® RadialSHIELD® PARTICULATE FILTERS



Alternate Recirculation Filtration Option:
**High-Efficiency Cab HVAC
Filter Kits**

System Type	Model	Powered	MERV 16	EPA	HEPA
Recirculated Air	RESPA CFX2 (Std. & Ext.)	●	●	●	●
	RESPA FFX2 (Std. only)		●	●	●
	RESPA PFX (Std. only)	●	●	●	●

For RESPA-CFX2, FFX2, PFX Type and Length	Sy-Klone Part No.	Filter Test Method, Classification	Min. Average Efficiency	Nominal Airflow	Effective Against	Applications
<p>MERV 16 STANDARD EXTENDED</p> <p>LOWEST RESTRICTION, GOOD PROTECTION</p>	<p>FEFF211 Closed filter cap</p> <p>FEFF220 FFX2, PFX only Louvered filter cap</p> <hr/> <p>FEFF212 Closed filter cap</p>	<p>ASHRAE 52.2, ISO 11155-1 MERV 16</p> <p>EN779:2002 F9</p>	<p>≥95% @ 0.3 µm to 1.0 µm particle size</p> <p>≥95% @ 0.4 µm particle size</p>	<p>≤ 150 CFM (255 m³/h)</p>	<p>All 0.3 µm to 1.0 µm particulate, including:</p> <ul style="list-style-type: none"> • Bacteria • Diesel particulate matter (DPM) • Droplet nuclei (sneeze) • Most tobacco smoke • Respirable crystalline silica (RCS) • Other respirable particulate within the size range 	<ul style="list-style-type: none"> • Agricultural, meets EN15695 Category 2 cab filter requirement • Construction • Demolition • Forestry, logging, mulching • Mining • Rail maintenance of way • Waste and indoor recycling • All applications where respirable dust is present
<p>EPA STANDARD EXTENDED</p> <p>LOW RESTRICTION, EXCELLENT PROTECTION</p>	<p>FEFF243 Closed filter cap</p> <p>FEFF242 FFX2, PFX only Louvered filter cap</p> <hr/> <p>FEFF244 Closed filter cap</p>	<p>ISO 23875:2021 Amendment 1, ASHRAE 52.0, ISO 11155-1 EPA</p> <p>Meets ISO 23875 Requirements</p>	<p>99.6% @ 1.6 µm</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.2 kPa</p>	<p>All MERV 16 contaminants, plus:</p> <ul style="list-style-type: none"> • All combustion smoke • Carbon dust • Sea salt dust • Carcinogenic materials • Friable asbestos 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 2 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra-fine aerosols are present
<p>HEPA STANDARD EXTENDED</p> <p>MORE RESTRICTION, BEST PROTECTION</p>	<p>FEFF210 Closed filter cap</p> <p>FEFF222 FFX2, PFX only Louvered filter cap</p> <hr/> <p>FEFF213 Closed filter cap</p>	<p>ISO 23875:2021 Amendment 1, EN1822-5, ISO 29463-5 ASHRAE 52.2, ISO 11155-1 HEPA</p> <p>Meets ISO 23875 Requirements</p>	<p>99.99% @ 0.3 µm</p> <p>Initial Efficiency ≥99.95% @ MPPS (0.063 µm)</p>	<p>≤ 100 CFM (170 m³/h)</p> <p>Pressure ΔP 0.4 kPa</p>	<p>All MERV 16 contaminants, plus all 0.06 µm to 1.0 µm particulate, including:</p> <ul style="list-style-type: none"> • All combustion smoke • Carbon dust, sea salt dust • Carcinogenic materials • Friable asbestos • Sub-100 nanometer particulate, such as: <ul style="list-style-type: none"> • Viruses (COVID-19 is 60nm - 100nm) • Respiratory droplet nuclei • Ultra fine aerosols 	<ul style="list-style-type: none"> • ISO 23875 compliant filter • Agricultural, meets EN15695 Category 3 cab filter requirement • Demolition • Fire fighting • Industrial processing of cement, rock, aggregate, man-made stone • Mining • Rail maintenance of way • Waste and indoor recycling • Any applications where harmful particulate or ultra fine aerosols are of concern, or required by regulations

NOTES: µm = micrometer. Mishandling can result in loss of efficiency rating. Change filter based on cabin pressure. Hazardous gas or particulate environments require additional monitoring. For latest information, see sy-klone.com

¹MPPS = Most Penetrating Particle Size. Each filter passes breach test at time of manufacture.