RadialSHIELD® – RESPA® Cab Air Quality Filters

Interchangeable filtration program includes particulate, odor, and gas options for the most demanding, debris-laden industrial jobsites.

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

1. SELECT HVAC APPLICATION — FRESH or RECIRCULATED



Precleaner/Filter/Pressurizer

Standard (shown) or Extended Length

Ejective Filter Cap Ejective Filter Cap Designed to eject debris from filter housing as part of the precleaning process and self-cleaning capability



2. SELECT FILTRATION TYPE

- For job sites with heavy dust and debris, a **MERV 16** filter will substantially improve cab air quality.
- For job sites with harmful dust, such as asbestos, coal dust, etc., or where influenced by regulatory concerns, upgrade selection to **HEPA** filtration.
- 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** filters.



- **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 is extended-length only.

Recirculated Air Filters For RESPA-CFX2, CFX, FFX2 Type and Length	Sy-Klone Part No.	Filter Classification (standard, classification at nominal airflow)	Minimum Average Efficiency	Nominal Airflow	Effective Against	Applications
MERV 16 STANDARD FEFF211 EXTENDED	FEFF211 Closed filter cap FEFF220 <i>FFX2 only</i> Louvered filter cap FEFF212 Closed filter cap	ASHRAE 52.2, MERV 16 EN779:2002, F9	≥95% on 0.3 µm to 1.0 µm particle size ≥95% on 0.4 µm (Em) particle size	≤ 150 CFM (255 m3/h)	All 0.3 µm to 1.0 µm particulate, including: • Bacteria • Diesel particulate matter (DPM) • Droplet nuclei (sneeze) • Most tobacco smoke • Respirable crystalline silica (RCS) • Other respirable particulate within the size range	 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
HEPA STANDARD FEFF210 EXTENDED	FEFF210 Closed filter cap FEFF222 <i>FFX2 only</i> Louvered filter cap FEFF213 Closed filter cap	HEPA EN1822-1, H13 ISO 29463-1, ISO 35 H	Initial efficiency ≥99.95% at MPPS¹ (0.063 µm)	≤ 100 CFM (170 m3/h)	 All MERV 16 contaminants, plus all 0.06 μm to 1.0 μm particulate, including: All combustion smoke Carbon dust, sea salt dust Carcinogenic materials Friable asbestos Sub-100 nanometer particulate, such as: Viruses greater than 60nm (COVID-19 is 60nm - 100nm) Respiratory droplet nuclei Ultra fine aerosols 	 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: μ m = 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.

RESPA® Cab Air Quality Filters, continued





For RES	Air Filters PA-CF2, CF nd Length	Sy-Klone Part No.	Filter Classification (standard, classification at nominal airflow)	Minimum Average Efficiency	Nominal Airflow	Effective Against	Applications
FEFF208 STANDARD	ERV 16	FEFF208 Ejective filter cap FEFF209 Ejective filter cap	ASHRAE 52.2, MERV 16 EN779:2002, F9	≥95% on 0.3 µm to 1.0 µm particle size ≥95% on 0.4 µm (Em) particle size	≤ 150 CFM (255 m3/h)	 All 0.3 µm to 1.0 µm particulate, including: Bacteria Diesel particulate matter (DPM) Droplet nuclei (sneeze) Most tobacco smoke Respirable crystalline silica (RCS) Other respirable particulate within the size range 	 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
H FEFF218 STANDARD	IEPA KINA	FEFF218 Ejective filter cap FEFF219 Ejective filter cap	HEPA EN1822-1, H13 ISO 29463-1, ISO 35 H	Initial Efficiency ≥99.95% at MPPS¹ (0.063 µm)	≤ 100 CFM (170 m3/h)	 All MERV 16 contaminants, plus all 0.06 µm to 1.0 µm particulate, including: All combustion smoke Carbon dust, sea salt dust Carcinogenic materials Friable asbestos Sub-100 nanometer particulate, such as: Viruses greater than 60nm (COVID-19 is 60nm - 100nm) Respiratory droplet nuclei Ultra fine aerosols 	 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
Odor+HEPA and Gas+HEPA	FEFF131 ² Ejective filter cap	HEPA EN1822-1, H13 ISO 29463-1, ISO 35 H and ISO 11155-2, Odor Retention	Initial efficiency ≥99.95% at MPPS¹ (0.126 µm)	≤ 50 CFM (85 m3/h)	 General odors caused by particulate and non-toxic gas contaminants Particulate as listed above for HEPA filters, excluding sub-100 nanometer items 	 Applications that involve non-toxic odors ISO 23875 compliant filter Agricultural, meets EN15695 Category 3 cab filter requirement Farming and ag spraying equipment Waste and indoor recycling Applications as listed above for HEPA filters 	
		FEFF130 ³ <i>RESPA-CF2 only</i> Ejective filter cap	HEPA EN1822-1, H13 ISO 29463-1, ISO 35 H and EN12941:1998 + A1:2004 + A2:2008, Gas ABEK1	Initial efficiency ≥99.95% at MPPS¹ (0.126 µm)	≤ 50 CFM (85 m3/h)	 Ammonia gases Inorganic gases Sulfur gases Volatile organic compounds (VOC) Particulate as listed above for HEPA filters, excluding sub-100 nanometer items 	 For use in known toxic gas environments³ ISO 23875 compliant filter Agricultural, meets EN15695 Category 4 cab filter requirement Ag spraying equipment Industrial processing, ore processing Applications as listed above for HEPA filters

NOTES: μ m = 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.