



Comparison

	ECR	ECH	ECB	ECK
Airflow	1,500–12,000 m ³ /h (modular design)	Up to 1,000 m ³ /h	1,500–13,500 m ³ /h (modular design)	Up to 12,000 m ³ /h (modular design)
Filter cleaning	✓ Online cleaning by ROTATRONIC Smart filter cleaning system	✓ Online cleaning by ROTATRONIC Smart filter cleaning system	✓ Online cleaning by ROTATRONIC Smart filter cleaning system	✗ Static filters
Integrated fan	✗	✓	✗	✗
Housing material	Stainless steel or powder coated	Stainless steel or powder coated	Stainless steel or powder coated	Stainless steel or powder coated
Process pressure	-0.5..+0.5 bar.g	-0.5..+0.5 bar.g	-0.5..+0.5 bar.g	-0.5..+0.5 bar.g
Process temperature	Up to 200°C	Up to 110°C	Up to 120°C	Up to 250°C
Primary filter	Up to H13	Up to H13	Up to H13	Up to H14
Secondary filter	Up to H14	Up to H14	✗	○ Up to H14
Tertiary filter	✗	○ Up to H14	✗	○ Up to H14
Filter integrity	✓ As per ISO 16170	✓ As per ISO 16170	✗	✓ As per ISO 16170
Explosion protection	✓ Prevention of ignition sources and inherent protection - KST < 640 bar.m/s	✓ Prevention of ignition sources and inherent protection - KST < 500 bar.m/s	✓ Prevention of ignition sources and inherent protection or autonomous explosion protection (venting, supression)	✓ Prevention of ignition sources
Containment measures	✓ OEL < 1 µg/m ³ (OEB 5)	✓ OEL < 1 µg/m ³ (OEB 5)	✓ OEL > 1 µg/m ³ (OEB 4)	✓ OEL < 1 µg/m ³ (OEB 5)
Dimensions (H × W × D)	2,525 × 840* × 840 mm *Depends on the number of modules	Up to 1,770 × 1,500 × 1,050 mm	2,050* × 800* × 1,200 mm *Depends on the number of modules	1,300 × 550 × 740 mm (subject to final design)