

A FULLY INTEGRATED SOLUTION

CleanSeal Exhaust Integrity is a wall- or ceiling-mounted Hepa filter housing for return or exhaust air applications with integrated Mobile Integrity Probe (MIP). This development features:

- More efficient testing
- Qualified leak detection capability
- User interface through freely positioned control box
- Scan with direct drive or via flexible shaft + MIP Driver
- Optional testing shroud for ISO 14644-3 compliant aerosol injection

CleanSeal Exhaust Integrity has been validated to exceed ISO14644-3 leak detection requirements.

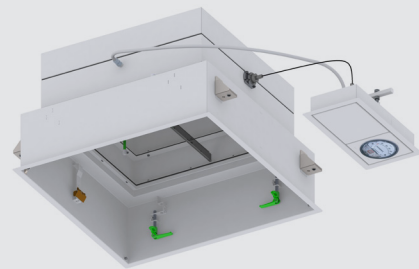
ADVANTAGES

- **Prolonged HEPA filter lifetime** by allowing lowest possible aerosol exposure
- **ISO 14644-3 compliant aerosol injection** with the optional universal testing shroud for both wall and ceiling exhaust housings, allowing for testing by Discrete Particle Counter or Photometer
- **Faster maintenance and operation** by toolless housing operation, quick & easy access, fast filter change
- **Life Science grade quality** with fully welded filter chassis, pressure tested body and specific, H₂O₂ and peracetic acid resistant coating
- **Configuration adaptability** by modular design, allowing for minimum integration depth and maximum adaptability to functional requirements

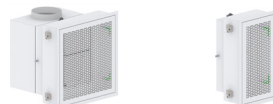
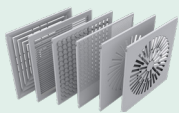
COMPACT & CONVENIENT FOR WALL EXHAUST



FLEXIBLE & SAFE FOR CEILING EXHAUST



MODULAR DESIGN FOR MAXIMUM CONFIGURATION FLEXIBILITY

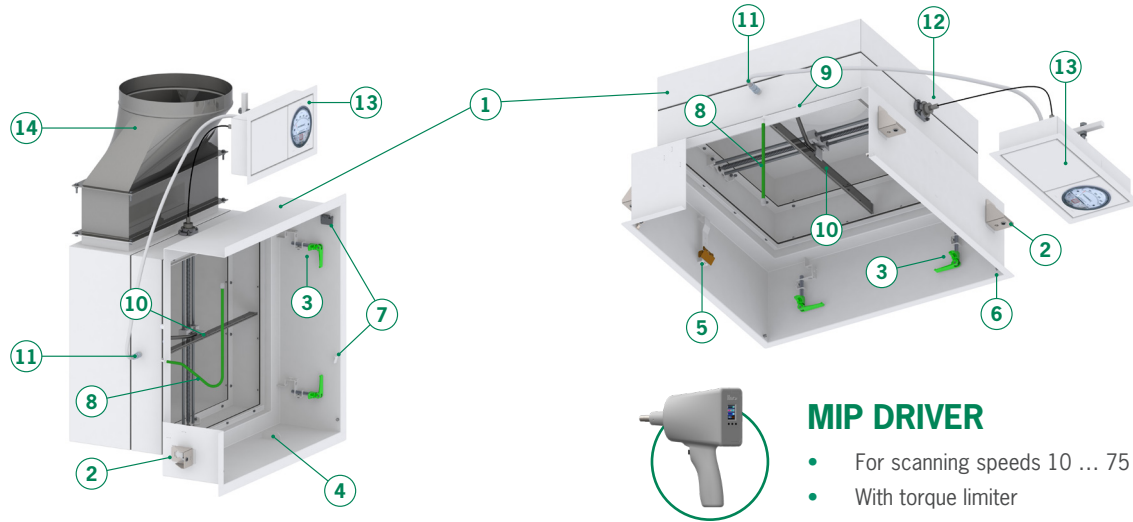


Choice of standard or custom front plates or doors with or without G4/M5 prefiltration.

Choice of standard or custom exhaust terminal configurations.

Choice of standard or custom duct connection options.

CLEANSEAL EXHAUST INTEGRITY IN DETAIL



MIP DRIVER

- For scanning speeds 10 ... 75 mm/s
- With torque limiter

1. CleanSeal Exhaust Integrity body, modular and 100% pressure tested
2. Detachable mounting blocks for compression or suspension setup
3. Multi-position toolless filter clamping system (factory preset)
4. Fixed filter positioners (wall housings)
5. Multi-position filter retainers (ceiling housings)
6. CleanSeal safe lock for interchangeable ceiling frontplates
7. Push-release lock and door stop for interchangeable doors
8. Room side accessible port for pressure drop measurement
9. Secondary ports for remote pressure drop reading
10. Mobile Integrity Probe (MIP) for leak stream sampling
11. MIP sampling port
12. MIP flexishaft drive interface (direct drive or flexishaft)
13. ControlBox with operator driver interface, sampling port access and manometer for filter dP. Also quick lock access hatch to the drive interface
14. Optional circular duct adapter for minimum integration depth with spigot for EUROVENT Class D plug & play connection

A FULLY INTEGRATED SOLUTION

- CleanSeal stainless steel testing shroud for both wall and ceiling housings
- Significant performance advantage over universal shroud solutions for reliable and repeatable results
- Qualified aerosol injection allowing for testing by Discrete Particle Counter or Photometer, whether with DEHS or PAO
- Ergonomic installation with wall or ceiling mounting plates using the standard housing interface
- Safe overhead ceiling installation with drop-guard feature
- Compact design for easy manipulation & storagewall mounted or overhead



AEROSOL DISTRIBUTION PERFORMANCE

	Performance	Requirements*
Stability over time	<=5%	<±10%
Relative STD deviation	<=8%	<20%
Relative MAX deviation	<=15%	<50%
Concentration ratio 100% sampling port vs. average	0,93	>0,75 <1,25

*acc. to IEST-RP-CC03-4 / ISO 14644-3

OPTIONAL QUICK CLAMPING SYSTEM

- For compression mounting on wall or ceiling panels with difficult access
- Secure housing fastening in 5 minutes

