



AtmosAir Solutions DBD BPI vs. Needlepoint Ionization (NBPI)

	AtmosAir DBD BPI	Needlepoint Ionization
Reduces Contaminants in the Space	✓	✗
Reduces Odors	✓	✗
Reduces VOCs	✓	✓
Reduces Particles	✓	✓
Effective on Bacteria and Virus	✓	✓
Doesn't Produce Ozone	✓	✓
Smart IoT Capable System	✓	✗
Low Static Pressure Drop	✓	✓
Maintenance	Every 2 Years	Every 5 Days
No Re-Engineering of HVAC System Required	✓	✓
New Design and Retrofit	✓	✓
Reduces Energy Costs	✓	✓
No Chemicals or Byproducts	✓	✓
Tested Contaminant Reductions in Occupied Space	✓	✗

NEEDLEPOINT ISSUES:

- Coil cleaning bars or devices, due to placement, will not sanitize or clean occupied space. Ions cannot get to space due to placement.
- “Self Cleaning” apparatus that cleans brushes/NP every 1-5 days is suspect. Coil cleaning products do not have self cleaning functionality.
- Needlepoint or brushes “arc” when they become dirty with dust or corrosion from airstream. Once brushes arc, they are not effective.
- Air ions generated by a needlepoint ion generator have an extremely short half life and don't make it to the space served.
- Independent 3rd party testing show very little needlepoint ions measuring 48” from the needlepoint generator as well as poor CADR.
- Largest commercial system has capacity of 4,800 CFM. This unit physically looks identical to the unit that has a capacity of 2,400 CFM.