

The below application table provides guidance on specific GPS devices, including where and when to best apply them. In any good IAQ design there are several options and alternatives to consider. For this reason, GPS defined a methodology for balancing design with the cost of the solution. To achieve optimum output and consistent IAQ results, GPS recommends using our Auto-Cleaning solutions for all applications.

## DESIGN GUIDANCE

- **GOOD:** Increase ions in the space with no relative target. Consider the Zone Duct-Mounted DM48 or our Fan Coil Solutions (CI-2, FC24, FC48)\*
- **BETTER:** Increase ions in the space with the highest readings possible for the design. Consider downstream ionization in the duct, DM-2 (with DM-S, where applicable)
- **BEST:** Increase ions in the space and address biofilm on the coil. Consider both downstream ionization (DM-2 with DM-S, where applicable) and the iMOD at the coil

\*For space constrained applications where the above products do not fit, consider using the CI-2, FC-3 or iRIB.

**GPS NPBI AIR IONIZATION SYSTEM APPLICATION TABLE<sup>1</sup>**

HVAC Equipment	AUTO CLEANING					NON-AUTO CLEANING		COIL
		NEMA 3R	Space limited			Space limited	Space limited	Coil cleaning
	DM-2 <sup>2</sup>	DM48	CI-2	FC48	FC24	FC-3 <sup>4</sup>	iRIB <sup>4</sup>	iMOD <sup>4</sup>
Air Handling Units				•	•			•
Air Terminals: Fan Powered Boxes	•		•	•	•	•		
Air Terminals: VAV Boxes	•		•			•		
CRAC: Computer Room Air Conditioners - AHUs			•	•	•			•
CRAC: Computer Room Air Conditioners - Packaged Units			•	•	•			•
DOAS: Dedicated Outside Air Systems			•	•	•			•
Ducted Fan Coil Unit	•		•	•	•	•		
Ductless Ceiling Cassette			•		•	•		
Ducted Mini Split			•	•	•	•		
Ductless Wall Mounted Indoor Unit			•			•	•	
ERV: Energy Recovery Ventilators <sup>3</sup>	•		•	•	•			
Furnace: Ducted	•		•	•	•	•		
Furnace: Unit Heater			•	•	•	•	•	
Make-up Air Units			•	•	•	•	•	•
Packaged RTUs			•	•	•	•		•
PTAC			•		•	•	•	
Self-Contained Vertical Packaged Units			•	•	•	•		•
SPVU - Wall Mounted HVAC: Indoor			•	•	•	•		•
SPVU - Wall Mounted HVAC: Outdoor			•	•	•	•		•
Unit Ventilators			•	•	•	•	•	
Water source Heat Pumps			•	•	•	•		•
<b>Duct Mounted</b>	<b>DM-2<sup>2</sup></b>	<b>DM48</b>	<b>CI-2</b>	<b>FC48</b>	<b>FC24</b>	<b>FC-3<sup>4</sup></b>	<b>iRIB<sup>4</sup></b>	<b>iMOD<sup>4</sup></b>
Duct Mounted	•	•						

**NOTES**

- 1 For any installation types not covered in this application guide, please consult your local GPS representative.
- 2 DM-2 to be installed in the duct AFTER the VAV / fan powered box.
- 3 For ions in the space, install downstream of wheel.
- 4 Periodic maintenance is required for all non-autocleaning equipment.

