

University of North Dakota

Location: Grand Forks, ND

Installing Contractor: Custom Aire and JCI

Equipment Supplier: SVL, Inc.



Highlights:

- Global Plasma Solutions' products are UL 2998 Certified
- Expedited Manufacturing time
- 575 GPS DM-48-ACs, over 17,000 total inches of iMod bars, and 135 iMeasure-D monitoring devices



Background: The University of North Dakota (UND) received a portion of the Economic Resiliency Grant, which was allotted to purchase equipment with the ability to reduce the spread of COVID-19. The grant was accessible to universities, businesses, and government facilities across the State of North Dakota. Global Plasma Solutions' (GPS) UL 2998 certified products were the primary choice for UND. The Engineer of Record, Andrew Honeyman of Obernel, helped identify GPS's products as the best option and worked with UND to utilize the Economic Resiliency Grant to fund the project.



GPS iMod Bar

Challenge: The most significant challenge for this project was the timeline. The equipment needed to be delivered and installed by December 31st, 2020. Money from the grant was readily available, but the design team (Obernel, UND, and JCI) needed to reach a consensus on what products would be used. Once they were presented with GPS' UL 2998 certified products, ease of installation, and lead times, it was an easy decision.

Solution: GPS's superior products, ease of installation, and ability to deliver equipment in a 2-4 week time frame helped meet the requirement. After the initial order was submitted, it was only three weeks until the first pieces of equipment were installed across the campus. All of the ordered equipment was on-site within four weeks.

There were a select few products used to retrofit the entire campus. UND and Obernel decided to utilize the duct-mounted DM-48-AC's for nearly (575) of the water-source heat pumps on campus. UND and Obernel insisted on using over 17,000 total inches of iMOD bars for use in rooftop units and air handling units for all other spaces. In order to actively monitor the iMOD bars, the project team decided on using (135) iMeasure-D monitoring devices. This allowed them to inherently pull in the associated data through the building management system.

GPS' products utilize NPBI (needle-point bipolar ionization) to emit positive and negative ions into the air with an HVAC system. The ions surround biological contaminants and inhibit their ability to feed and reproduce. Contact with positive and negative ions has microbicidal effects on pathogens, which ultimately disrupts their surface proteins and renders them inert, thereby improving IAQ (indoor air quality).



*GPS iMeasure - D
Monitoring Device*

End Result: The entire UND campus was outfitted with GPS products to mitigate the spread of COVID-19 on site, to keep the staff, students, and visitors as safe as possible. The turnaround time from planning to completing the installation was remarkably fast. It was quite an accomplishment, and it was all made possible by the efforts of UND, Obernel, Custom Aire, Global Plasma Solutions, JCI, and SVL.

For more information about this project or other case studies, visit svl.com.



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