



# BIG ASS FANS®

# SPECLAB™

*Big Ass Fans' patent-pending CFD software gives you the power to see our fans' performance in an immersive 3D environment.*

## SHOW, DON'T TELL

Big Ass Fans' SpecLab software is a cloud-based, comprehensive configurator that allows users to build and specify airflow solutions in a level of detail never before possible. Using computational fluid dynamics (CFD) and proprietary airflow data collected at Big Ass Fans' research facility, SpecLab gives customers the ability to model complex facilities, add interior walls and other building elements, and run precise simulations of our fans in a 3D space.

The tool's CFD analysis includes performance metrics in adherence to ANSI/ASHRAE Standard 55-2017 and ASHRAE Standard 216P.

## KEY BENEFITS:

- Create a custom CFD analysis in under 10 minutes
- Strengthen your proposals by validating recommended solutions
- Offer customers an experience that competitors can't provide
- Build customer trust and confidence in your recommendation
- Provide project influencers with key data to present to decision makers

## SPECLAB'S IMPACT ON BUILDING DESIGN

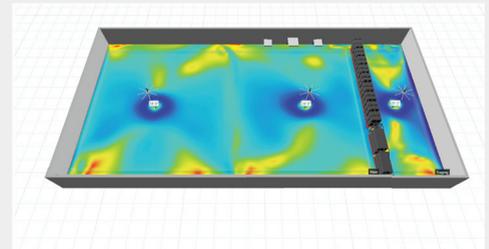
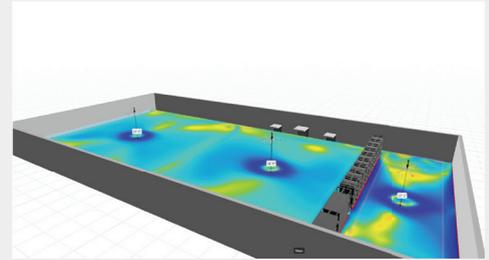
SpecLab's detailed project summary allows engineers and architects to clearly identify measures to improve their designs. Increasing air speeds and air turnovers per hour (ATH) results in greater air distribution and occupant comfort throughout the space, which in turn yields cost-saving and energy-efficiency benefits:

- Reduced size and run of ductwork
- Fewer air supply terminals
- Lower supply of outdoor air required
- Decrease in spec'd HVAC unit size and power
- Less HVAC runtime required to maintain comfort

With SpecLab, customers can visualize and quantify Big Ass fans' performance and impact on personal comfort, turning abstract concepts into tangible results that take into account the space's interior dimensions and obstructions.

### READY FOR YOUR CUSTOM SPECLAB ANALYSIS?

Contact your representative to get started.



*Visualize airflow recommendations with a custom 3D simulation*

Performance Metrics			
Area of Concern	Main		
Standing	Seated		
	Min	Avg	Max
Air Velocity	47.43 ft/m	135.87 ft/m	272.1 ft/m
Cooling Effect	3.64 °F	9.45 °F	12.51 °F
Cooling Coverage	--		--
Advanced			
PMV	1.2	0.63	0.33
PPD	35.41%	13.37%	7.25%
SET	88.84 °F	83.53 °F	80.71 °F

*Generate data-backed airflow predictions for a variety of performance metrics*