

Hospital Operating Room

5x

Outside air changes per hour

Hospital Operating Room

5x

Outside air changes per hour

Aircraft Cabin

20x

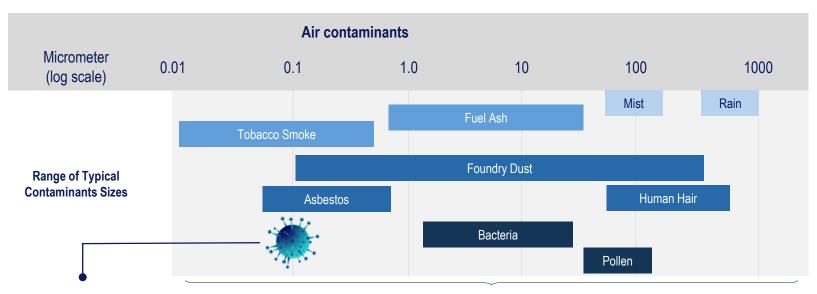
Outside air changes per hour Every 2-3 minutes the full cabin volume of external air is injected in the aircraft

Clean air designed to cycle from top to bottom minimizing cross-cabin flow





E-Jet HEPA filters capture 99.9+% of airborne contaminants bigger than 0.1 micron

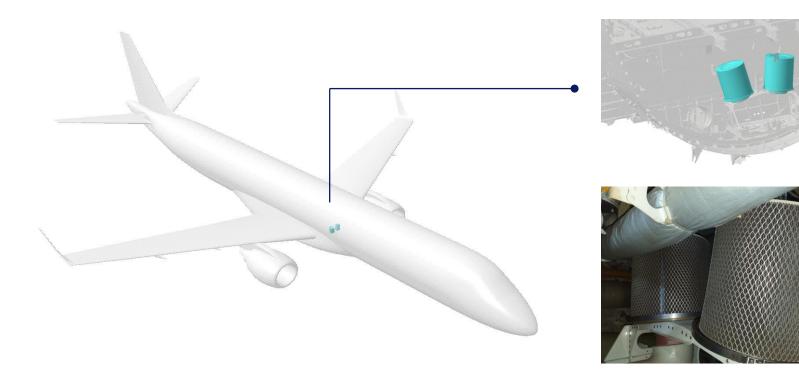


Size of SARS-COV-2 is around **0.1µm**¹

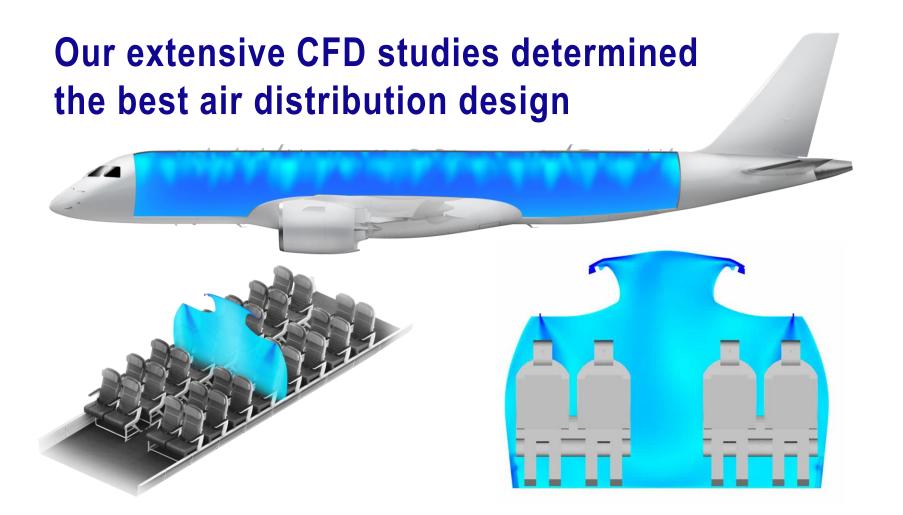
HEPA Filter Retention



Filter removal and inspection follows a strict maintenance schedule









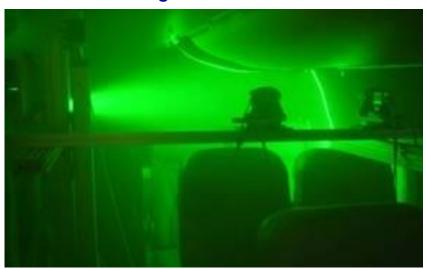
In-house testing on full-scale E-Jet mockup validated CFD results



nbraer and cannot be used or reproduced without written permission.

Test data used for modeling/final cabin design

Measuring cabin air flow



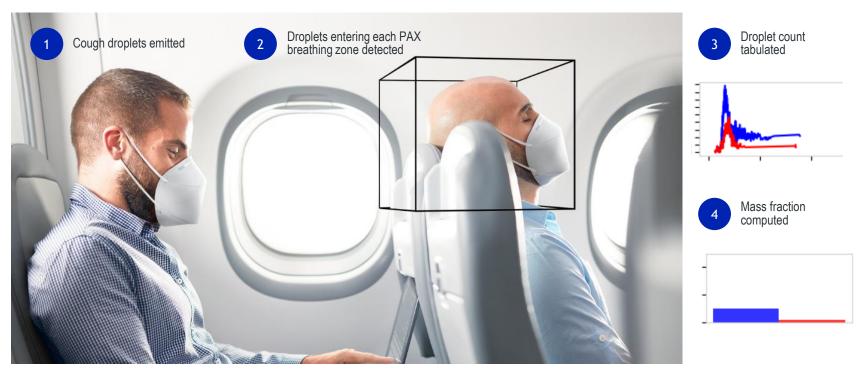
Assessing air quality



State-of-the-art testing techniques and experiments developed in association with academic & scientific research institutes



Our CFD studies tracked the spread of droplets



7-row CFD droplet dispersion model, 200 μg in a cough distributed in 16 droplet diameters from 0.1 μm - 200 μm



nformation is property of Embraer and cannot be used or reproduced without written permissic

Per PAX cough mass is extremely low and reduced further with a mask

Fraction of cough mass (%) in breathing zone



0.13% without mask



0.02% with mask





THANK YOU

embraer.com









