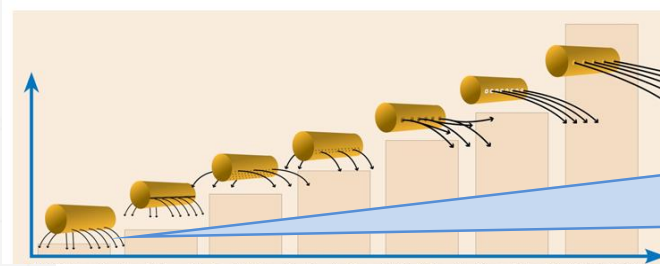


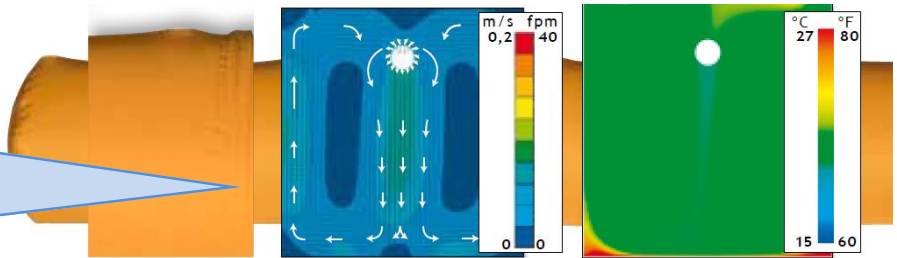
EXCEL AIR SYSTEMS MICRO-MESH TECHNICAL DATA DOCUMENT

Micro-Mesh Dispersion system is a one-of-a-kind approach to increasing the permeability of Fabric Duct dispersion systems. A case-specific array of micro-perforations are cut into the Fabric Duct using an automated laser-cutting system. This allows Excel Air Systems to customize our Fabric Ducts to disperse a specific volume of air per square foot at a specific static pressure with incredible accuracy. (Increments of 0.5 CFM/sq. ft. are achievable.) The result is the maximum displacement of air with the least possible throw.



With Micro-Mesh, air exits the Fabric Duct through micro-perforations and is driven by thermodynamic forces, which prevents drafts within the occupied zone, thereby resulting in a high level of comfort.

High Level of Energy Efficiency & Best Air Comfort



Velocity in room depends on ΔT

Coldest temperature is under the duct.

Characteristics of Micro-Mesh Flow Model
Flow Principle: Displacement ventilation
Condition of air supply: Cold
Throw type: N/A

New Micro-Mesh Technology

Pstat	Exit velocity FPM	Distance [inches] from surface of duct to where air velocity reaches			
		150 FPM	100 FPM	50 FPM	20 FPM
0.24"	1940	1.25"	1.9"	3.8"	9.4"
0.36"	2370	1.5"	2.3"	4.3"	11.4"
0.48"	2744	1.8"	2.7"	5.1"	13.4"
0.60"	3068	2.0"	3.0"	5.9"	14.9"