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## On the Technical Side... *Clean Room Technology*

We are called to be specialists in a number of different areas by the accounts that we call on – we certainly need to know a smattering of ergonomics, be knowledgeable about fabrics, about foam, about stress points and breaking points of parts, etc. This technical side is going to give you a little more information about Clean Room Technology and how you can take advantage of opportunities that may not have been considered before.

*What is clean room technology about, anyway?* Well, remember back when you were growing up, how your Mom used to get on you about cleaning up your room, and accused you of having things growing under your bed? Clean room technology is basically that, ramped up several notches.

Clean room technology comes into play when a manufacturer of a product has to maintain a high level of air purity and cleanliness when manufacturing, inspecting, or packaging the product to avoid contamination to the product. You know when the evening sun comes into your window at just the right angle to show all kinds of particles floating around in the air? Those particles represent the contamination that must be removed from the air – and that’s why we put filters on the furnaces or air handling units in our homes. Clean room technology has a low tolerance for those particles – as a matter of fact, they gauge the amount of technology needed by classifying an area by the particles (both number and size) per square inch of air. The “standard” size particle is 0.5 micrometers (micron) – pretty small – and the classification is as follows:

Class 1: 1 - 0.5micron particle per square inch

Class 10: 10 – 0.5micron particles per square inch

Class 100: 100 – 0.5micron particles per square inch

Class 1000: 1000 – 0.5micron particles per square inch

Class 10000: 10000 – 0.5micron particles per square inch

Anyhow, you get the idea. When you get down into class 10 and class 1 areas, sizing of particles becomes pretty important as well, so you can have a greater number of smaller sized particles, but there are still standards to be met:

Number of particles allowed per square inch of air by size and class of room

	0.1micron	0.2micron	0.3micron	0.5micron
Class 1	35	7.5	3	1
Class 10	350	75	30	10
Class 100	n/a	750	300	100
Class 1000	n/a	n/a	n/a	1000



mid back (J730 series), or high back (J2300 series).

Low back and mid back task series available with 2, 6, 7, and 8 seats – high back task series available with 2, 7, and 8 seats.

Options that are not available with clean room chairs include air lumbar, seat slider, neck roll, or upholstered arms.

Adjustable arms are available only with customer's written request and factory agreement on the application of those arms.

Where should I be looking to market these chairs? We typically think of clean room areas as being those in pharmaceutical manufacturing, or electronics manufacturing – but many areas in hospitals (such as research laboratories and pharmacy areas) and other manufacturing areas require clean room chairs. Don't second guess – always let your contacts know that ErgoGenesis manufactures clean room – and clean room with electrostatic dissipation seating.

If you need additional technical information or need the certification testing procedures for a client, call your Customer Service Representative or Regional Sales Manager.

Happy selling... and by the way, how long has it been since you cleaned out your van?